

## ATTACHMENT 5

### Aquatic Resource Delineation for the Southwest Village Specific Plan





## Aquatic Resource Delineation Report for the Southwest Village Specific Plan Project San Diego, California

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A handwritten signature in black ink, appearing to read "A. Smisek", is positioned above the printed name.

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## Acronyms and Abbreviations

APT	Antecedent Precipitation Tool
EPT	<i>Ephemeroptera, Plecoptera, or Trichoptera</i>
FAC	Facultative
FACU	Facultative Upland
FACW	Facultative-Wetland
GPS	global positioning system
NI	No indicator
NRCS	Natural Resource Conservation Service
NWI	National Wetland Inventory
OBL	Obligate
OHWM	Ordinary High Water Mark
project	Lakeside Large Diameter Sewer Improvements Project
SANDAG	San Diego Association of Governments
SDAM	Streamflow Duration Assessment Method
SWRCB	State Water Resources Control Board
TNW	Traditional Navigable Water
UPL	Upland
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey



## 1.0 Site Description and Landscape Setting

The Southwest Village Specific Plan project (project) is located in the city of San Diego, south of State Route 905 and east of Interstate 805 (Figure 1; all figures provided with this report are compiled as Attachment 1). It is accessible from Caliente Avenue and State Route 905 and is situated south of the southern terminus of Caliente Avenue. The project is found in Township 18 South, Range 01 West and Township 19 South, Range 01 West, of the U.S. Geological Survey (USGS) 7.5-minute topographic map, Imperial Beach, California quadrangle (Figure 2; USGS 1996). The project is surrounded by residential and commercial development to the north and undeveloped land borders the site to the east, west, and south (Figure 3).

The Assessor's Parcel Numbers within the Review Area are provided in Table 1 (all tables are compiled as Attachment 2). For the purposes of this report, the Review Area is equivalent to the area of proposed development (project-level analysis area), as well as the proposed vernal pool restoration area and surrounding land to be conserved and managed by the City (see Figure 3). The Review Area encompasses approximately 549.07 acres. Also included within the Review Area are aquatic resources delineated within portions of the Candlelight and Southwind project sites that occur adjacent to or overlap with portions of the Southwest Village project-level analysis area (see Figure 3). Despite occurring within these other project sites, any aquatic resources overlapping or occurring adjacent to the Southwest Village project-level analysis area could be impacted by the Southwest Village project. The Candlelight project has obtained wetland permits addressing impacts within the area noted in Figure 3. The Southwind project is located adjacent to the Candlelight project (see Figure 3) but is currently seeking entitlements. Because these projects overlap with the Southwest Village Specific Plan project, the relevant aquatic resources (either overlapping with or occurring adjacent to the Southwest Village Specific Plan project site) delineated for those projects have been included for reference within this report. The majority of the Review Area is vegetated with non-native grassland and also supports sensitive native upland and wetland habitats.

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## 2.0 Site Alterations, Current and Past Land Use

This Review Area consists of undeveloped land and has been altered over time by the presence of off-road activity. A review of historical aerial photographs was used to determine the land use history of the site. A 1971 aerial photograph of the Review Area showed it to be largely undisturbed with only a few dirt access roads present. Around 1981, aerial photographs showed that off-road activity had occurred in parcels in the northern portion of the Review Area and a few homesteads were also established. No past or active irrigation exists within the Review Area. By 1989, aerial photographs show parcels in the northern portion were riddled with dirt roads from off-road vehicle activity and illegal trash dumping. Additional dirt roads had been created throughout the Review Area, but the southern areas remained predominately undisturbed. The Review Area remained largely the same over the next two decades with some increase in dirt roads due to off-road vehicles, especially in the most northern parcels. In the 2000s, off-road activity increased and as a result, many areas are highly disturbed. Illegal off-roading within the Review Area continues to the present day. All portions of the Review Area are subject to regular trespassing and many areas contain trash, dumping, and/or ground disturbance.

### 2.1 Soils

Information on the soil types sampled in the Review Area (Figure 4) is summarized from the Soil Survey for San Diego County (U.S. Department of Agriculture [USDA] 1973), the San Diego Association of Governments' (SANDAG) 1995 geographic information system data (SANDAG 1995), and the Hydric Soils of California list obtained from the USDA Natural Resource Conservation Service (NRCS; 2023).

Eight soil types within five series are mapped within the Review Area, which include Diablo clay, 30 to 50 percent slopes, Huerhuero loam, 2 to 9 percent slopes; Linne clay loam, 9 to 30 percent slopes, Linne clay loam, 30 to 50 percent slopes, Olivenhain cobbly loam, 2 to 9 percent slopes; Olivenhain cobbly loam, 9 to 30 percent slopes; Olivenhain cobbly loam, 30 to 50 percent slopes; and Stockpen gravelly clay loam, 2 to 5 percent slopes (USDA 1973; see Figure 4). The Huerhuero loam, Olivenhain cobbly loam, and Stockpen gravelly clay loam soils series can be considered hydric soils when occurring in ponded depressions (NRCS 2023). All soil types are discussed below.

Diablo clay – This soil series on-site consists of well-drained, moderately deep to deep clays derived from soft, calcareous sandstone and shale. These soils have slopes of 2 to 50 percent. The vegetation present on these soils consists mainly of grasses. Diablo clay loam is found in the southern portion of the Review Area, south of the vernal pool restoration areas (see Figure 4).

Huerhuero loam – This soil series on-site consists of moderately well-drained loams that have a clay subsoil and were derived from sandy marine sediments. Permeability is very slow, and the runoff is slow to medium. The erosion hazard is slight to moderate. The vegetation supported on these soils is primarily non-native grassland habitat. The Huerhuero loam soil type is found within a majority of the project site, mainly on the mesa tops (see Figure 4).



Linne clay loam – This soil series consists of well-drained, moderately deep clay loams derived from soft calcareous sandstone and shale. These soils have slopes of 9 to 50 percent. A small area of Linne clay loam occurs within the land to be conserved and managed by the City, in the south-central portion of the Review Area.

Olivenhain cobbly loam – This soil series on-site consists of well-drained, moderately deep to deep cobbly loams that have a very cobbly clay subsoil. These soils have slopes of 2 to 50 percent. This soil type is formed in gravelly and cobbly alluvium. Permeability is very slow, and the runoff is slow to medium. The erosion hazard is slight to moderate. This soil type can support vegetation found within Diegan coastal sage scrub habitat including California sagebrush (*Artemisia californica*), California buckwheat (*Eriogonum fasciculatum*), and also support maritime succulent scrub habitat which includes species such as jojoba (*Simmondsia chinensis*), San Diego County viguiera (*Bahiopsis lacinata*), and laurel sumac (*Malosma laurina*). The Olivenhain cobbly loam soil type is found along the western finger of the Review Area, in the southern land to be conserved and managed by the City, and in the north-central portions of the Review Area.

Stockpen gravelly clay loam – This soil series consists of moderately well-drained, moderately deep gravelly clay loams and is mapped on marine terraces. Runoff is slow and the erosion hazard is slight. Within the soil mapping are small inclusions of Diablo soils, Huerhuero soils, and Salinas soils. The vegetation supported on these soils is primarily non-native grassland habitat and is found within a small area in the northern portion of the Review Area.

## 2.2 Hydrology

The Review Area contains a number of drainage features occurring along the bottom of large canyons and smaller side canyons (Figure 5). These drainages convey runoff from the surrounding upland areas, including runoff from the mesa tops. They are generally naturally occurring and contain natural bottoms. However, all are subject to human-caused disturbances, including off-road activity and trash dumping. Specifically, the drainages in the northern portion of the Review Area contain large quantities of trash. The source of the water that flows in the on-site drainages comes from natural seasonal rainfall and runoff. The flow regime of these drainages appears to be ephemeral with flows being of short duration and occurring primarily only after seasonal rainfall events.

The drainages within the northwestern finger and north-central portions of the Review Area generally flow north, then west, draining into a main channel at the bottom of Moody Canyon (see Figure 5). This main channel continues west into a culvert near Beyer Boulevard and off-site through a stormwater conveyance system, draining west and then south into the Tijuana River, a Traditional Navigable Water (TNW).

Drainages in the northeastern portion of the Review Area generally convey flow southward into the upper portions of Dillon Canyon (see Figure 5). Drainages in the east-central portion of the Review Area also flow into Dillon Canyon via Finger Canyon (see Figure 5). The main channel in Dillon Canyon empties into the larger Spring Canyon, which contains a large channel that extends through the southeastern portion of the Review Area, within the land to be conserved and managed by the City. The Spring Canyon channel crosses the United States/Mexico border just south of the Review Area.



and empties into the Tijuana River, which extends west, eventually crossing back into the United States as a TNW and emptying into the Pacific Ocean.

Small drainages in the southwestern portion of the Review Area flow generally southwest through the land to be conserved and managed by the City and into an off-site storm drain. This storm drain likely conveys flow into the Tijuana River (TNW), which then empties into the Pacific Ocean. All of the on-site drainage features occur within the Tijuana River watershed, within hydrologic units 911.11 or 911.12 of the San Diego Basin Plan.

A flow line analysis prepared for this project shows the limits of the two-, five-, and ten-year storm events for the drainage channels within the area of proposed development (project-level analysis area; RICK Engineering Company 2023). A discussion of these storm event limits and comparison with the delineated non-wetland waters is provided below in Section 5.2.

Aside from the on-site drainages, the Review Area contains isolated depressions and wetlands that seasonally pond water. The source of the water for depressions is primarily from natural rainfall and local runoff from the surrounding land. The water that reaches these aquatic resource features is seasonal, and temporarily ponds within their limits. Any overflow to adjacent areas occurs locally during peak flow events via sheet flow (i.e., there are no drainage courses connecting depression/wetland features to each other or to any tributary drainages within the Review Area).

## 2.3 Vegetation

Sixteen vegetation communities were mapped within the Review Area: maritime succulent scrub, disturbed maritime succulent scrub, valley needlegrass grassland, Diegan coastal sage scrub, disturbed Diegan coastal sage scrub, non-native grassland, non-vegetated channel, mule fat scrub, southern willow scrub, tamarisk scrub, disturbed riparian scrub, disturbed wetland, San Diego mesa claypan vernal pool, eucalyptus woodland, disturbed land, and urban/developed land (Figure 6; Table 2).

As mentioned above, the Review Area, especially the northern portions, has been subject to a significant amount of disturbance from off-road activity and past land use. This may have affected the historical location and extent of some of the on-site depression/wetland features. The ongoing disturbance on-site may affect the vegetation, soil, and hydrology characteristics of these features. These disturbances, as well as any naturally problematic scenarios, were considered when assessing the on-site features for the presence of hydrophytic vegetation, hydric soils, and wetland hydrology, as described in Section 4.0 below.

## 3.0 Precipitation Data and Analysis

Climate data, including precipitation totals, for the nearest recording station to the project site was gathered from the NRCS National Water and Climate Center databases. The climate data obtained are discussed below.



### 3.1 Climate and Growing Season

The project is located within the coastal region of southern California, in an area generally characterized as mild throughout most of the year, with hotter and drier summers and cooler and wetter winters. The majority of precipitation typically falls between December and March as somewhat frequent low- to moderate-intensity rainfall. The growing season typically lasts into early summer after winter and spring rainfall and ends in mid to late summer when little to no precipitation occurs and as temperatures increase.

### 3.2 Antecedent Precipitation Tool Summary

The Antecedent Precipitation Tool (APT) was used to analyze the 30-day rolling total and the 30-year normal range of precipitation data for the nearest recording weather stations to the project. Surveys within the Review Area occurred over the course of 2018 to 2023, and eight dates were chosen over this period of time to represent the six years of data. The data presented in the APT results graphics (Attachment 3) indicate that normal precipitation conditions occurred at the time of the surveys on March 15, 2018, April 11, 2019, March 17, 2021, February 9, 2022, and June 16, 2023, surveys. Slightly wetter than normal conditions occurred at the time of the August 17, 2023, survey. During the year 2020, two delineations were conducted on January 14 and March 3 in which precipitation conditions shifted from wetter to drier than normal.

These results show that minimal precipitation occurred in the vicinity of the project in the months prior to the August 17, 2023, moderate precipitation occurred to the March 15, 2018, March 3, 2020, March 17, 2021, February 9, 2022, and June 16, 2023, surveys and substantial precipitation occurred prior to the April 11, 2019, and January 14, 2020, surveys. These conditions were considered when analyzing the hydrology of the on-site features as discussed in Sections 4.0 and 5.0 below.

### 3.3 Wetland Hydrology and Analysis

Hydrology within the Review Area consists of wetlands, vernal pools, and drainages, all of which would be affected by substantial rain events. Multiple successive rain events would be likely to “charge” the clay soils, swelling as they reach their capacity to hold water, and may result in ponding within the vernal pools and substantial flow within the drainage channels. Surface water was observed in many of the on-site depressional features following rain events, as noted during the delineation surveys and fairy shrimp surveys conducted during the 2017/2018 wet season and 2018/2019 wet season.

As noted above, the flow regime of the on-site drainages appears to be ephemeral with flows being of short duration and occurring primarily only after seasonal rainfall events. The location and abundance of hydrology indicators within these drainages would be subject to change as a result of rainfall frequency and intensity. These factors were considered when searching for and recording hydrology indicators for these features within the Review Area.



## 4.0 Investigation Methods

As part of the initial studies for this project, routine waters/wetland delineations, following the guidelines provided in the Wetlands Delineation Manual (USACE 1987) the Arid West Regional Supplement (USACE 2008), was performed by RECON Environmental, Inc. biologists in 2018 in order to determine the extent of the aquatic resources present in the Review Area. Additional wetland delineation field work was conducted for the Review Area during 2019 - 2023 as new areas were added to the Review Area and additional data was collected. For reporting convenience, all aquatic resource delineation surveys conducted for this project are summarized in Table 3.

### 4.1 Wetland Parameters

#### 4.1.1 Hydrophytic Vegetation

Vegetation communities comprising partially or entirely hydrophytic plant species were examined, and data for each vegetation stratum (i.e., tree, shrub, herb, and vine) were recorded on the datasheet provided in the 2008 Arid West Regional Supplement (USACE 2008). The percent absolute cover of each species present was visually estimated and recorded.

First, the wetland indicator status of each species recorded within a vegetation community was determined by using the National Wetland Plant List (USACE 2020). Dominant species with an indicator status of NI (No Indicator) or not listed in the 2020 National Wetland Plant List were evaluated as either wetland or upland indicator species based on local professional knowledge of where the species are most often observed in habitats that are characteristic in southern California.

The dominance test was then used to determine which vegetation community qualified as hydrophytic vegetation at each site. In situations where a site failed the dominance test but contained positive indicators of hydric soils and/or wetland hydrology, the prevalence index was used. The presence or absence of morphological adaptations was noted; however, none of the sampled wetland areas required an analysis of morphological adaptations to determine if the vegetation was hydrophytic.

Vegetation within the depressional features on-site is subject to temporal shifts in vegetation throughout the year in response to seasonal weather patterns, and across years in response to periods of prolonged drought. Additionally, the unauthorized off-road activity on-site may affect the plant species and distribution within the features. These factors, along with the observed vegetation at the time of sampling, were considered when determining the presence of hydrophytic vegetation within each depressional feature.

#### 4.1.2 Hydric Soils

Sample points were selected within potential wetland areas and where the apparent boundary between wetland and upland was inferred based on changes in the composition of the vegetation and topography (see Figure 4). Soil pits were dug to a depth of at least 18 inches (unless a restrictive



layer was encountered) to determine soil color, evidence of soil saturation, depth to groundwater, and indicators of a reducing soil environment (i.e., mottling, gleying, and hydrogen sulfide odor). A Munsell Soil Color Book (2009) was used to determine soil colors, and the 2008 Arid West Regional Supplement (USACE 2008) and the Field Indicators of Hydric Soils in the United States guide (USDA 2017) was used to determine the presence of hydric soil indicators. For some depressional features, soils were sampled at a later date, after the vegetation and hydrology were assessed for each of those features. This is in part due to caution that was taken while features were ponded and may have supported fairy shrimp. This method also allowed the option to forego digging soil pits in features that lacked either hydrophytic vegetation or wetland hydrology, or both, and would not be considered wetlands, ultimately reducing the number of pits that needed to be dug. In all, 196 soil pits were dug to assess the presence of hydric soils in the on-site features.

The seasonally ponded hydrology regime of the depressional features on-site, as well as the soil compaction and disturbance that results from the unauthorized off-road activity, may result in problematic hydric soil scenarios. The level of soil disturbance for each feature, along with the soil colors and evidence of hydrophytic vegetation and hydrology, were all considered when determining if that feature meets the hydric soil criteria.

### 4.1.3 Wetland Hydrology

Hydrologic information for the site was obtained by conducting a pre-field review (described in Section 4.2 below), analyzing climate conditions prior to the field survey, and by directly observing hydrology indicators in the field. All portions of any potentially occurring wetlands or non-wetland waters within the Review Area were inspected for signs of hydrology as defined in the 2008 Arid West Regional Supplement (USACE 2008).

## 4.2 Pre-Field Review

Prior to conducting the delineations, an aerial photograph, USGS topographic maps of the site, including the 7.5-minute Imperial Beach, California quadrangle (USGS 1996; see Figure 2), USGS National Hydrography Dataset (USGS 2023), USDA soil maps of the site, and the U.S. Fish and Wildlife Service National Wetland Inventory (NWI) (U.S. Fish and Wildlife Service 2023; see Figure 5) were examined to aid in the determination of potential waters of the U.S. on-site.

## 4.3 On-site Wetland Investigation

Once on-site, the Review Area was examined to determine the presence of any indicators of wetlands, including wetland vegetation, hydric soils, and hydrology. Field data, including hand drawn maps and recorded global positioning system (GPS) points and lines, were later digitized/downloaded into ArcGIS. Mapped aquatic resources created using these data were analyzed in ArcGIS to provide acreages or target aquatic resource and vegetation boundaries. USACE wetland determination data forms are included as Attachment 4. For each feature sampled, one wetland determination data form was complete and labeled with that feature number (see Attachment 4). Paired upland point locations were chosen adjacent to each feature to delineate the wetland boundary. These wetland determination data forms are labeled with the feature number



followed by "UPL" and are included as Attachment 5. Photographs of the Review Area are provided in Attachment 6. Descriptions of the potential wetland vegetation communities sampled are provided below.

Portions of the Review Area support southern willow scrub, tamarisk scrub, mule fat scrub, and disturbed riparian scrub which were found to contain some areas that meet the hydrophytic vegetation standard and some areas that did not. These habitats are generally characterized by willow trees (*Salix* sp.; FACW), tamarisk (*Tamarix rammosissima*; FAC), or mule fat (*Baccharis salicifolia*; FAC) that create a canopy cover ranging from open to mostly closed. For most of these areas, an herbaceous cover within the understory is present and may contain FAC and FACW species, but may not support a predominance of FAC, FACW, or OBL species. As such, this herbaceous layer had a significant influence on whether a given sample point met the hydrophytic vegetation standard.

Mule fat scrub occurs along a few drainages within the westernmost finger of the Review Area, within the northern portion on the Candlelight property, and within the eastern edge of the Review Area within the Spring Canyon drainage (Photograph 1; see Figure 6). This vegetation community generally occurs within and adjacent to natural flood channels. Southern willow scrub occurs within the Candlelight property near the existing terminus of Caliente Avenue as small patches of habitat and within the southeastern portion of the Review Area within Spring Canyon (Photograph 2; see Figure 6). This vegetation community is dominated by arroyo willow (*Salix lasiolepis*). Disturbed riparian scrub is also mapped as small patches within the Candlelight property but is dominated by a combination of salt cedar and arroyo willow. Tamarisk scrub occurs in the land to be conserved and managed by the City within the southern portion of the Review Area adjacent to large, disturbed wetlands (Photograph 3; see Figure 6) and is dominated by salt cedar.

Portions of the Review Area support San Diego mesa claypan vernal pools and disturbed wetlands which occur as small depressions throughout the Review Area (see Figure 6). For the purposes of vegetation mapping, disturbed wetlands have been mapped in depressions that met all three wetland criteria and San Diego mesa claypan vernal pools have been mapped in any depressional feature containing at least one vernal pool indicator plant (USACE 1997). The vernal pool plant indicator species observed include the obligate (OBL) wetland indicator species, adobe popcorn-flower (*Plagiobothrys acanthocarpus*), water pygmyweed (*Crassula aquatica*), and flowering-quillwort (*Triglochin scilloides*; Photograph 4); the facultative-wet (FACW) indicator species, dwarf woollyheads (*Psilocarphus brevissimus*; Photograph 5) and prairie plantain (*Plantago elongata*; Photograph 6); and facultative-upland (FACU) species such as alkali-mallow (*Malvella leprosa*). Depressional features that are not vernal pools and did not meet the three wetland criteria have been lumped into the surrounding upland vegetation community (typically disturbed habitat or non-native grassland) for the purposes of vegetation mapping.

Within the on-site depressional features, the abundance of hydrophytic species varied, resulting in some meeting the hydrophytic vegetation standard, and some not. Hydrophytic vegetation observed includes a dominance of the OBL species, hyssop loosestrife (*Lythrum hyssopifolium*), along with many facultative wet, facultative (FAC), and/or facultative upland species, such as dwarf pepper grass (*Lepidium latipes*; FACW), rye grass (*Festuca perenne*; FAC), Mediterranean barley (*Hordeum marinum*; FAC), and soft chess (*Bromus hordeaceus*; FACU). Because the features meeting the



wetland criteria are mostly dominated by non-natives, they are considered disturbed wetlands (Photograph 7). However, those that met the wetland criteria and contain a vernal pool indicator plant species (USACE 1997) are considered vernal pool wetlands.

As mentioned above, the site contains factors that could result in problematic hydrophytic vegetation scenarios. The level of disturbance, recent and long-term climatic conditions, and observed plant species and distribution within the depressional features was considered when assessing each for the presence of hydrophytic vegetation. Most portions of the site have undergone historic disturbance and the site supports mostly non-native plant species. However, these non-natives, notably the hydrophytic species hyssop loosestrife, Mediterranean barley, and to some degree, rye grass, as well as the lack of upland non-natives, including oats (*Avena* sp.) and bromes (*Bromus* sp.), were found to provide a fairly consistent indication of wetlands on-site, especially when observing their distribution over multiple surveys between 2018 and 2023, which included both years of above average and below average rainfall.

Features that did not meet the wetland criteria but still support a vernal pool indicator plant species (USACE 1997) are referred to as vernal pool basins. Those features that did not meet the wetland criteria and do not contain a vernal pool indicator plant species have been mapped as seasonal basins if they were found to support fairy shrimp, or road ruts if not. These distinctions are discussed further in the Other Features Considered section (Section 5.4) below.

## 4.4 On-site Non-wetland Waters Investigation

### 4.4.1 Ordinary High Water Mark Investigation

The lateral extent of the ordinary high water mark (OHWM) was delineated along the various drainages in the Review Area using the observed hydrology indicators in accordance with *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (Lichvar and McColley 2008). The OHWM data forms are included as Attachment 7. Indicators observed and used to determine the extent of the OHWM include a change in vegetation, a break in slope, change in sediment texture, drift and sediment deposits, drainage patterns, and the presence of bed and bank (Photograph 8). The distribution and abundance of observed indicators varied between the on-site drainages, with the larger features, such as the moderate-sized drainage channels in Moody Canyon and Spring Canyon, generally containing more frequent and diverse indicators.

The streamflow duration was also assessed for drainages within the project-level analysis area using the observed streamflow duration indicators in accordance with the *User Manual for a Beta Streamflow Duration Assessment Method (SDAM) for the Arid West of the United States* (Mazor et al. 2021). Drainage C occurs within the Candlelight property which has already obtained wetland permits addressing impacts within the area. Therefore, Drainage C is not included in the discussion below. Drainages H(b), I, K(b), N, and S occur in the Specific Plan boundary, which is analyzed at a program-level; therefore, these drainages are not included in the project-level discussion below.

The SDAM surveys were conducted on August 18 and 20, 2021, and the SDAM data forms are included as Attachment 8. Each drainage was searched for indicators used to determine the



streamflow duration, including presence of hydrophytic plant species; aquatic macroinvertebrates; *Ephemeroptera*, *Plecoptera*, or *Trichoptera* (EPT) taxa; algae; fish; and observed hydrology. At the time of the surveys, all of the drainages within the project-level analysis area were found to mostly lack plant species with a wetland indicator of FACW or wetter, aquatic macroinvertebrates, EPT taxa, algae, or fish. Additionally, the drainage channels lacked surface flow, sub-surface flow, and isolated pools at the time of the surveys. According to the observed conditions during these surveys and observations made during other biological and wetland delineation surveys conducted on-site, each of these drainages was classified as having an ephemeral flow regime.

#### 4.4.2 Flow-Line Investigation

In order to understand the jurisdictional boundaries of the waters of the state, a hydraulic flow-line analysis was conducted to model the boundaries of the 2-, 5-, and 10-year flow limits (RICK Engineering Company 2023). According to the revised California Water Boards Policy for Discharges of Dredged or Fill Material to Waters of the State of April 6, 2021, the definition of waters of the state is broader than both the former federal definition and the new Sackett-based federal definition. The current definition of waters of the state broadly includes “any surface water or groundwater, including saline waters, within the boundaries of the state”, meaning that the wetlands have a continuous surface connection such that they are indistinguishable from otherwise jurisdictional waters. Hence, the jurisdictional authority over waters of the state could potentially reach beyond the federal definition of waters of the U.S. as identified by the OHWM delineation. For this reason, the flow line model aims to depict the potential extent of waters of the state. Because the flow line analysis is based on a model and not real-time hydrological observations, the presence of wetland indicator plants was also used to delineate the potential extent of waters of the state.

The methods for the flow line analysis included using a detailed Hydrologic Engineering Center’s – River Analysis System hydraulic model of each drainage course and a desktop review of available hydrologic calculations to estimate anticipated flow rates during the subject storm events. Other readily available tools were utilized, such as the USGS publicly available StreamStats tool, and National Oceanic and Atmospheric Administration Atlas 14 rainfall data to estimate point precipitation frequency. Additional details on these methods can be found in the project’s flow line analysis (RICK Engineering Company 2023).

### 5.0 Description of All Wetlands and Other Non-wetland Waters

The aquatic resources delineated within the Review Area include wetlands, riparian, and non-wetland waters and total 11.41 acres. Specifically, wetlands include those areas of wetland scrub habitats (mule fat scrub, southern willow scrub, and disturbed riparian scrub), disturbed wetlands, and vernal pool wetlands that met the three wetland criteria. A summary of the aquatic resources and location of these resources in relation to the Review Area boundaries are provided in Table 4 and on Figure 7, respectively. Where the Candlelight and Southwind properties overlap this project’s Review Area (see Figure 3), the delineation results from those properties has been included in the analyses below. For consistency between projects, those features have retained their identification labels for this report,



including a "C" in front of those features identified during the Candlelight delineations and an "SW" for those features identified during the Southwind delineations (see Figure 7 and Table 4). The Candlelight project has obtained wetland permits addressing impacts within the area noted in Figure 3 pursuant to Regional Water Quality Control Board Clean Water Act Section 401 Water Quality Certification No. R9-2023-0080 issued March 13, 2023, and CDFW Streambed Alteration Agreement Notification #1600-2016-0206-R5 issued January 24, 2022. However, because the regulatory permitting for Southwind is still pending, copies of the OHWM and wetland determination data forms for features delineated under that project are not included with this report.

For the purposes of the discussion below, each separate drainage channel within the Review Area has been labeled with a letter. A total of 20 ephemeral drainages were mapped during field visits conducted between 2018 and 2023, labeled Drainages A through S (see Figure 7 and Table 4). Small tributaries to Drainages G, H, and K have been labeled as G(b), H(b), and K(b), respectively. Drainage C occurs mostly within the Candlelight property and maintains the label of Drainage C where it occurs within the Candlelight property (see Figure 7 and Table 2).

Additionally, 327 depression features were identified within the Review Area (see Figure 7 and Table 4). All depressional features were labeled using numbers in the order they were surveyed, except the existing labels that were kept for the City of San Diego Vernal Pool Habitat Conservation Plan features. Again, "C" and "SW" were used to label those that were delineated as part of the Candlelight and Southwind projects, respectively. Figure 7 also depicts some features that occur outside but adjacent to the Review Area for reference. Due to shifting project boundaries during period of on-site surveys (2018 – 2023), these features outside the Review Area may have been sampled during the delineation and/or other biological surveys (fairy shrimp, vegetation mapping, rare plants, etc.), but are not considered in the analysis.

## 5.1 Wetlands

Delineated wetland areas include portions of the areas mapped as southern willow scrub, mule fat scrub, and disturbed riparian scrub along Drainage C within the northern portion of the Review Area in the Candlelight property. Specifically, these were mapped as five distinct features C-A, C-B, C-E, C-J, and C-I. These wetlands dominated by scrub habitat total 0.44 acre. The remaining areas of southern willow scrub, mule fat scrub, and tamarisk scrub in other portions of the Review Area did not meet all three wetland criteria and have been mapped as riparian habitat (see Section 5.3 below). Delineated wetlands also include those vernal pool wetland and disturbed wetland features that met all three wetland criteria, as discussed below.

### 5.1.1 Vernal Pool Wetlands

Of the 327 depression features mapped within the Review Area, a total of 135 met all three wetland criteria and contain a vernal pool indicator plant species. These features are therefore considered vernal pool wetlands (see Photographs 5, 9, and 10), totaling 1.53 acres within the Review Area. The source of the water for these features is seasonal and primarily from natural rainfall and local runoff from the surrounding land. Although they may locally overflow as sheet flow, they have no direct



connectivity, via drainage courses or otherwise, between each other or to any tributary drainages within the Review Area.

Although hydrologically isolated, the jurisdictional delineation concluded that these vernal pool wetland features support a predominance of hydrophytic vegetation, either passing the Dominance Test or the Prevalence Index. Wetland hydrology indicators commonly observed in vernal pool wetlands included surface soil cracks and a biotic crust comprised of algae (see Attachment 4). A few depressions were observed as having surface water and/or saturated soils during the surveys. The known presence of aquatic invertebrates (e.g., fairy shrimp) was also an indicator of wetland hydrology in some of the depressions.

Hydric soil indicators observed within these features included a depleted matrix, redox dark surface, vernal pools, or redox depressions (Photographs 11 and 12). For some features that contained only OBL or FACW dominant species (as long as at least one dominant was OBL), hydric soils were presumed present per the Wetlands Delineation Manual (USACE 1987). Some vernal pool wetland features were determined to have problematic hydric soils. Although either no or insufficient redox features were observed, hydric soils are considered problematic due to the presence of hydrophytic vegetation and wetland hydrology. These vernal pool features are seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance. However, the presence of abundant hydrophytic vegetation and strong hydrology indicators is sufficient to assume the presence of hydric soils, despite the lack of observed indicators.

## 5.1.2 Disturbed Wetlands

Of the 327 depression features mapped within the Review Area, a total of 20 met all three wetland criteria but do not contain a vernal pool indicator plant species. These features are therefore considered isolated disturbed wetlands (Photograph 13), totaling 1.03 acres within the Review Area. As with the vernal pool wetlands, the source of the water for these features is seasonal and from natural rainfall, with no direct downstream connectivity.

These features were all found to support a predominance of hydrophytic vegetation and contained hydrology indicators similar to those vernal pool wetlands described above. Additional hydrology indicators observed included: water marks, water-stained leaves, oxidized rhizospheres along living roots, and non-riverine drift deposits. Hydric soil indicators observed within these features included a depleted matrix, redox dark surface, or problematic hydric soils.

## 5.2 Non-wetland Waters

The Review Area contains 20 ephemeral drainages mapped as non-wetland waters (see Photographs 8 and 14, Figure 7, and Table 4). Five ephemeral drainages, Drainages A, B, B(b), D, and E, occur in the north-central portion of the Review Area, located in the upper portions of canyons that are tributary to Moody Canyon (see Figure 7). Drainages P and Q are located along the western finger of the project site (Beyer Boulevard extension area) and are also tributary to Moody Canyon. These seven drainages generally flow west or north into the main channel that flows west through the bottom of Moody Canyon. This channel enters the westernmost portion of the Review Area as



Drainage O, which drains west into a culvert near Beyer Boulevard and eventually into the Pacific Ocean, a TNW.

Four ephemeral drainages, Drainages F, G, G(b), and C, occur within the northeastern portions of the Review Area (Central Avenue and Caliente Avenue extensions). The flows from these ephemeral drainages are conveyed southward off-site into the upper part of Dillon Canyon. In the east-central portion of the Review Area, Drainage H(b) flows southeast into Drainage H, which flows northeast through Finger Canyon and offsite into Dillon Canyon. Dillon Canyon is a side canyon to Spring Canyon, which contains a drainage channel that flows south and enters the southeastern portion of the Review Area as Drainage S. Drainage S continues to flow off-site and southwest through Spring Canyon, draining southward across the international border via a stormwater conveyance facility and into Mexico where flows enter the Tijuana River and then into the Pacific Ocean.

Drainage T drains a small watershed area in the south-central portion of the Review Area. It flows southeast toward the southern boundary of the Review Area and empties into a culvert and the stormwater conveyance facility at the downstream end of Drainage S.

Drainages I, K, and K(b) occur at the edge of the west-central portion of the Review Area, occurring on steep slopes and extending generally southwest and off-site (see Figure 7). Review of aerial photography shows that these drainages appear to continue flowing southwest and eventually drain into a storm drain system that likely empties into the Tijuana River.

Drainage M begins in the south-central portion of the Review Area and flows southwest into Drainage N, which continues south, southwest, and west through the mitigation parcels in the southern portion of the Review Area, eventually draining into an offsite storm drain (see Figure 7). This storm drain eventually conveys flow into the Tijuana River, which then empties into the Pacific Ocean.

## 5.2.1 Ordinary High Water Mark Indicators

The source of the water that flows in the ephemeral drainages on-site comes from natural seasonal rainfall. The flow regime of these drainages is ephemeral with flows being of short duration and occurring primarily only after seasonal rainfall events. Indicators observed and used to determine the extent of the OHWM include a change in vegetation, a break in slope, change in sediment texture, drift and sediment deposits, drainage patterns, and the presence of bed and bank (see Attachment 3). The distribution and abundance of observed indicators varied between the on-site features, with the larger drainages, such as Drainage S and Drainage O, generally containing more frequent and diverse indicators.

Dominant plant species documented at the sample locations along the ephemeral drainage courses included the upland species ripgut grass (*Bromus diandrus*; UPL), redstem filaree (*Erodium cicutarium*; UPL), and Italian thistle (*Carduus pycnocephalus*; UPL). Facultative and facultative upland species such as miner's lettuce (*Claytonia perfoliata*; FAC), shining peppergrass (*Lepidium nitidum*; FAC), Russian thistle (*Salsola tragus*; FACU), and California pellitory (*Parietaria hespera*; FACU) were also present within the drainages. Ripgut grass was the most common vegetation observed along the drainages.



## 5.2.2 Hydraulic Indicators

The results of the storm event flow analysis are also depicted along each of the drainages within the area of proposed development (project-level analysis area) on Figure 7. A comparison of the OHWM and 2-year flow lines for each drainage is provided below and in Table 5. The discussion below also addresses adjustments to the mapping of on-site non-wetland waters as it pertains to the State Water Resources Control Board (SWRCB) waters of the state definition. Drainage C occurs within the Candlelight property which has already obtained wetland permits addressing impacts within the area. Therefore, Drainage C is not included in the discussion below. Drainages H(b), I, K(b), N, and S are also not included in the discussion below because they do not occur within the project-level analysis area.

The 2-year flow line for Drainage O includes low floodplain terraces outside of the active channel (outside the OHWM). The OHWM averages approximately 3 feet in width while the floodplain terraces along this drainage average approximately 100 feet in width and supports patches of mule fat scrub vegetation (see Photograph 1) mapped as riparian areas on Figure 7, labeled as O-1, O-2, and O-3. Based on the presence of hydrophytic vegetation within the 2-year flood area of Drainage O, it is anticipated that the waters of the state would include these patches of mule fat scrub within its jurisdiction (see Figure 7).

The OHWM of Drainage A averages approximately 1.5 feet in width while the areas mapped within the 2-year flow lines average approximately 15 feet in width. Although the 2-year flow line area is significantly wider, it support mostly upland non-native grasses with scattered lemonade berry (*Rhus integrifolia*; UPL; Photograph 15) and lacks hydrophytic vegetation. As such, it is anticipated that the jurisdiction of waters of the state would only include those areas mapped within the OHWM for Drainage A.

The width of the delineated OHWM along Drainages B(b) and H average between 2.5 and 3.5 feet, while their respective areas mapped within the 2-year flow lines average between 7.5 and 11 feet in width. These 2-year flow areas support slopes containing a mixture of upland non-native grasses and scattered coastal sage scrub shrub species (Photographs 16 and 17). These 2-year flow line areas do not support hydrophytic species or species indicative of a floodplain. As such, it is anticipated that the jurisdiction of waters of the state would only include those areas mapped within the OHWM for Drainages B(b) and H.

The width of the delineated OHWM along Drainage B averages 3 feet while the area within the 2-year flow lines averages approximately 14 feet in width and supports sloped areas mostly containing non-native upland grasses and fennel (*Foeniculum vulgare*; UPL; Photograph 18). This 2-year flow line area does not support hydrophytic species or species indicative of a floodplain. As such, it is anticipated that the jurisdiction of waters of the state would only include those areas mapped within the OHWM for Drainage B.

The width of the delineated OHWM along Drainages D and E average between 2 and 2.5 feet, while their respective areas mapped within the 2-year flow lines average between 8 and 10 feet in width. These adjacent areas support slopes containing a mixture of upland coastal sage scrub shrub species (Photographs 19 and 20). They do not support hydrophytic species or species indicative of a



floodplain. As such, it is anticipated that the jurisdiction of waters of the state would only include those areas mapped within the OHWM for Drainages D and E.

The width of the delineated OHWM along both Drainages F and G(b) average 1.5 feet each and these drainages occur approximately 10 feet away and parallel to each other. However, the 2-year flow lines are mapped as combined for these two drainages within an area averaging approximately 3 feet in width and supporting slopes containing a mixture of upland coastal sage scrub shrub species (Photographs 21 and 22). This 2-year flow line area does not support hydrophytic species or species indicative of a floodplain. As such, it is anticipated that the jurisdiction of waters of the state would only include those areas mapped within the OHWM for Drainages F and G(b).

The width of the delineated OHWM along Drainage G averages 4 feet and mostly matches the width and extent of areas mapped within the 2-year flow lines upslope of this drainage's confluence with Drainage G(b). A small patch of mule fat scrub occurs just outside the 2-year flow lines at this confluence and two additional patches occur within the 2-year flow lines downstream. Because all three of these patches are likely hydrologically associated to the drainage, it is anticipated that the waters of the state would extend to include these areas mule fat scrub habitat (see Figure 7). The width of the OHWM of Drainage G is narrower than the 2-year flow lines in the vicinity of its confluence with Drainage F. However, downstream from the confluence with Drainage F, the OHWM widens, mostly matching the width of the 2-year flow lines (see Figure 7).

The width of the delineated OHWM along Drainages K, M, P, and Q average 2, 3, 1, and 2 feet, respectively, and these drainages mostly match the widths of the respective areas mapped within their 2-year flow lines (see Photographs 14 and 24 through 26). The existing OHWM mapping for these drainages is anticipated to accurately reflect the waters of the state jurisdiction along these features. It is anticipated that the potential extent of SWRCB waters of the state described in this section matches those areas likely to be considered CDFW waters of the state as well.

## 5.3 Riparian

Areas mapped as riparian total 5.89 acres within the Review Area (see Figure 7 and Table 4). These riparian areas occur as southern willow scrub, mule fat scrub, and tamarisk scrub where these vegetation communities extend outside of the OHWM delineated for these non-wetland water areas (see Photographs 1 – 3 and Figures 7.9 and 7.35-7.37). Specifically, a total of 10 small riparian areas occur along the on-site drainages and are labeled according to the drainages along which they occur. Three of these areas occur in the western portion of the survey area along Drainage O (features O-1, O-2, and O-3; see Figure 7-9), three occur in the northern portion of the survey area along Drainage G (features G-1, G-2, and G-3), and four occur in the southeastern portion of the survey area along Drainage S (features S-1, S-2, S-3, and S-4) (see Figures 7.35-7.37 and Table 4). Of these 10 features, five (O-1, S-1, S-2, S-3, and S-4) meet the hydrophytic vegetation criteria (see Attachment 4). This riparian mapping includes small areas of canopy extending beyond non-wetland water boundaries, as well as riparian vegetation rooted within a low terrace adjacent to non-wetland water areas. The riparian areas lack the wetland hydrology and hydric soil indicators required to meet the USACE definition of a wetland.



## 5.4 Other Features Considered

As described above, features that did not meet the wetland criteria but still support a vernal pool indicator plant species (USACE 1997) are referred to as vernal pool basins (Photograph 27). Those features that did not meet all three of the wetland criteria and do not contain a vernal pool indicator plant species have been mapped as seasonal basins if they were found to support fairy shrimp, or road ruts if not.

## 6.0 Deviation from National Wetland Inventory

The results of this analysis vary significantly from those classified in the NWI (see Figure 5). Some of the delineated features have been recorded in the NWI, but vary slightly in their exact location or characteristics, while many delineated features are not recorded in the NWI. For instance, Drainage O, which occurs within the westernmost portion of the Review Area in Moody Canyon, is mapped in the NWI as an intermittent drainage channel. However, it appeared to support more of an ephemeral flow regime during the surveys. Additionally, the NWI does not include the mule fat scrub riparian habitat that occurs along Drainage O within the Review Area. Drainages A, B, C, D, E, G, H, I, M, N, and S are mapped in the NWI, but not B(b), F, G(b), H(b), J, K, K(b), P, or Q.

Only a small number of the depression features delineated in the Review Area are included in the NWI. For instance, vernal pool wetland #54 occurs within the west-central portion of the Review Area and has been recorded as freshwater emergent wetland in the NWI. However, vernal pool wetlands #55 – 58 and 114, which occur nearby, have not been recorded in the NWI.

## 7.0 Mapping Method

The maps of the delineated aquatic resources within the Review Areas are based on the above analysis (see Figure 7). The boundaries of the majority of aquatic resources were obtained from a combination of GPS data collected in the field, aerial photography, and recent topographic survey data. Geographic information system mapping software (ArcMap) was used to produce the graphical maps contained in this report.

## 8.0 Results and Conclusions

Wetlands, non-wetland waters, and riparian areas were delineated within Review Area and include those scrub wetland/riparian habitats described above (mule fat scrub, southern willow scrub, tamarisk scrub, disturbed riparian scrub), depressional features meeting the wetland criteria and mapped as either disturbed wetlands or vernal pool wetlands, and ephemeral drainages occurring throughout the Review Area. These features total 11.41 acres and 16,555 linear feet (see Table 4).



## 9.0 Disclaimer Statement

This report describes the results of aquatic resource delineations conducted within the Review Area, which totals approximately 549.07 acres. It was prepared in accordance with the Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (USACE 2017). The jurisdictional waters delineation is used to identify and map the potential extent of the federal jurisdictional waters of the U.S. The purpose of this study was to identify and map the limits of any aquatic water features on the property to provide necessary background information for analysis by USACE in making a jurisdictional determination. USACE will review the content of this report and ultimately make a determination of federal jurisdiction for any waters of the U.S. that may be present in the Review Area. References used in the preparation of this report are included below in Attachment 9.



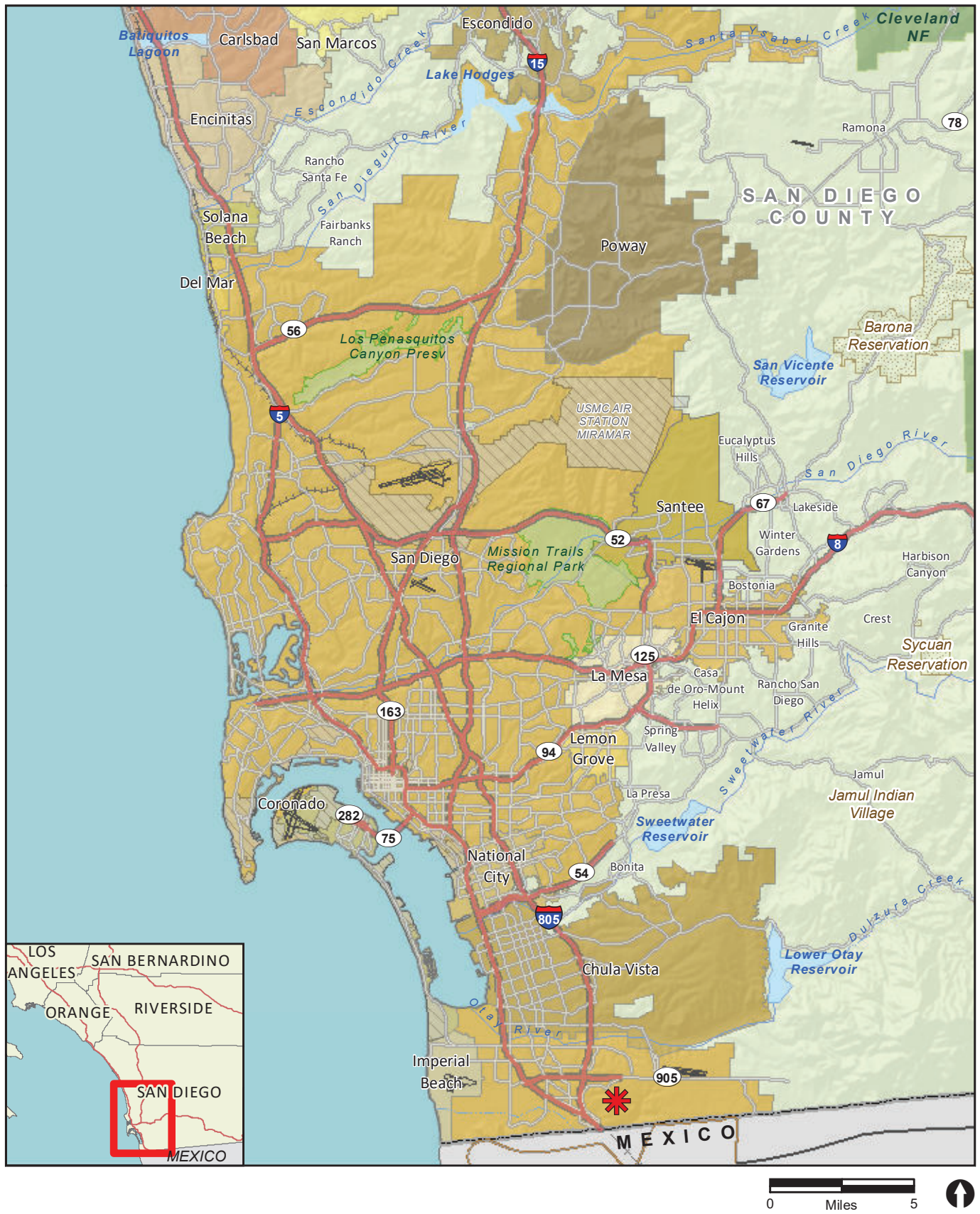
## ATTACHMENTS



## ATTACHMENT 1

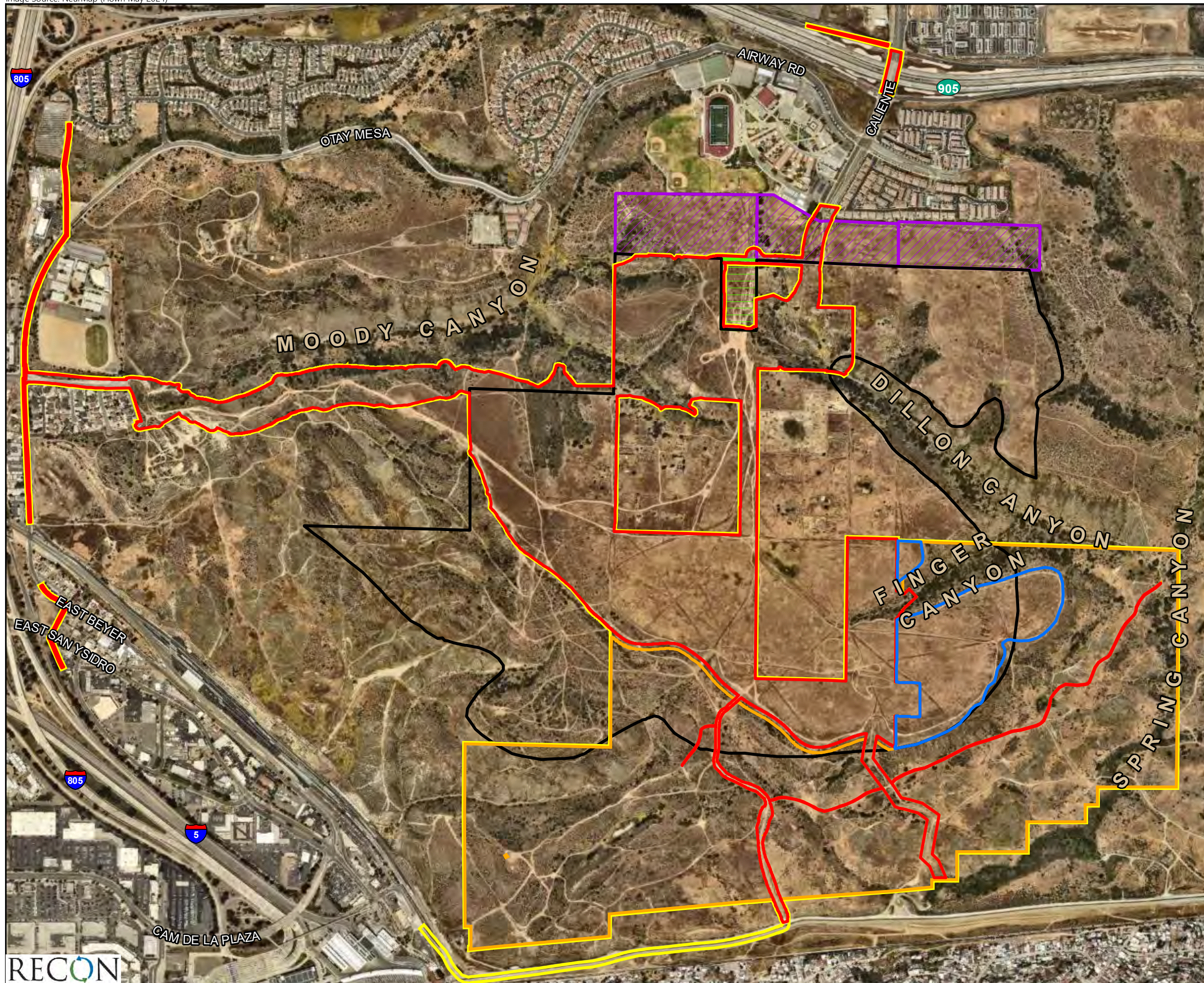
### Maps





✱ Project Location





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area

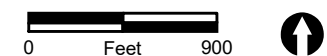
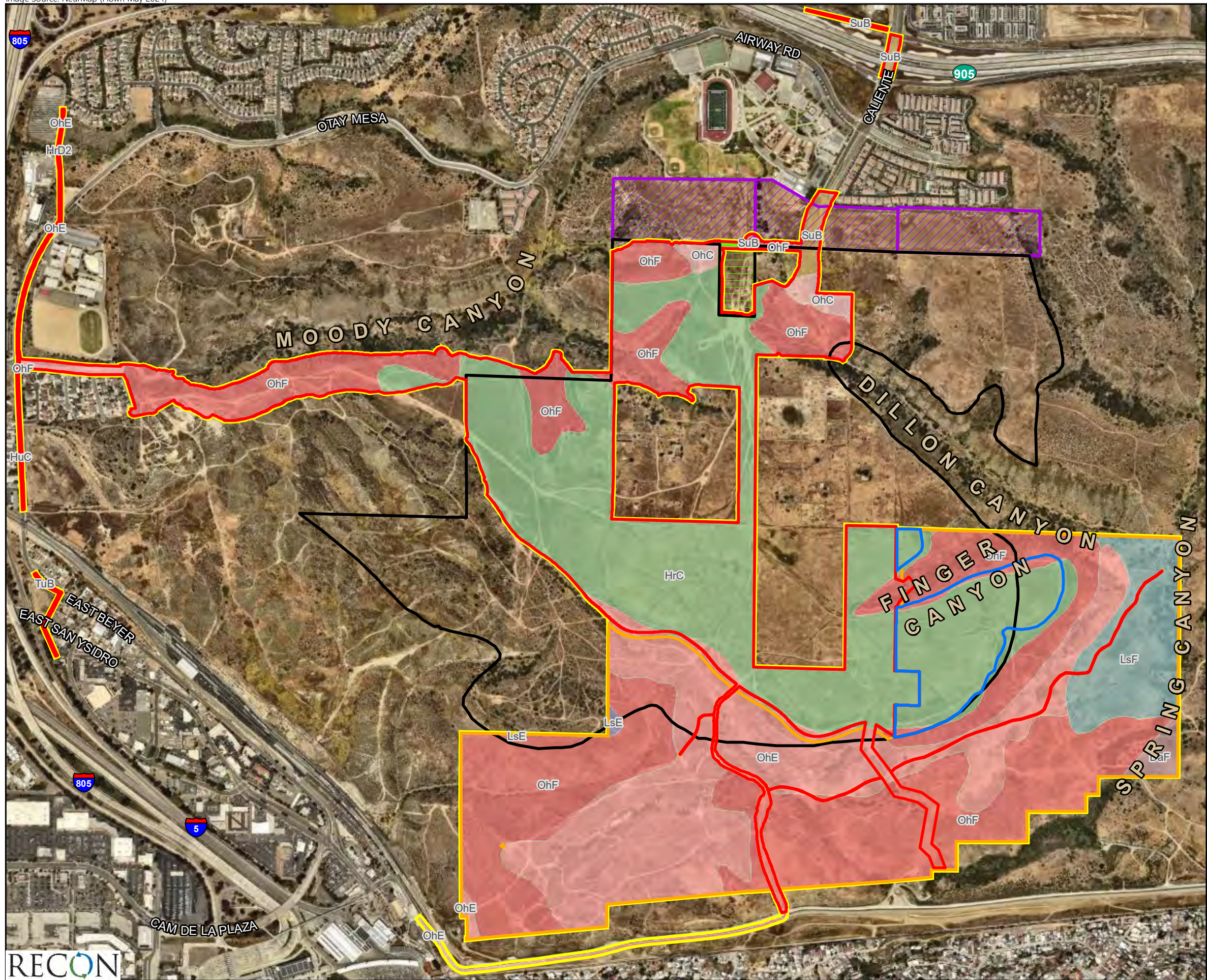


FIGURE 3  
Project Location on Aerial Photograph





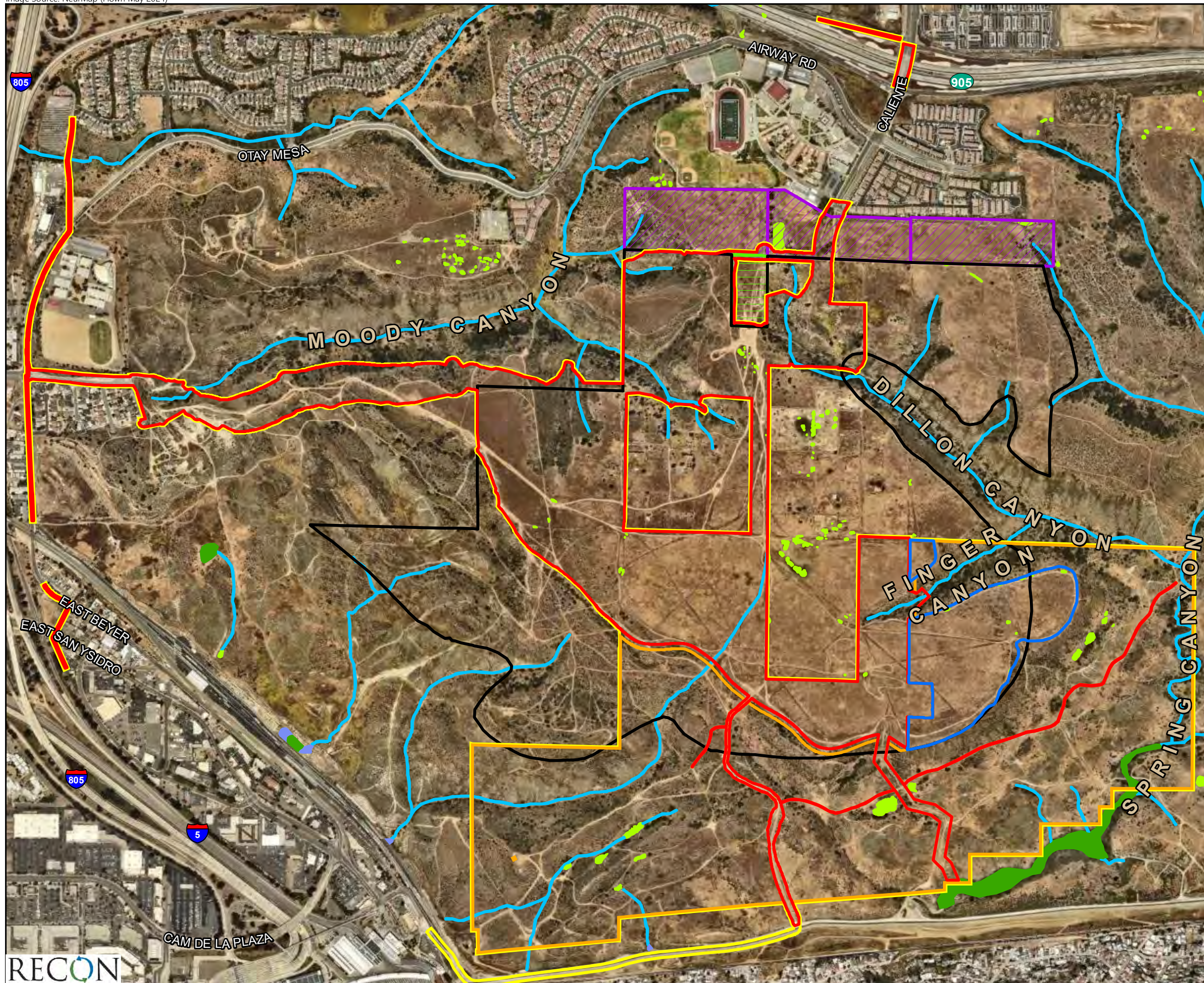
- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area

- Soil Type**
- DaF | Diablo clay, 30 to 50 percent slopes
  - HrC | Huerhuero loam, 2 to 9 percent slopes
  - LsE | Linne clay loam, 9 to 30 percent slopes
  - LsF | Linne clay loam, 30 to 50 percent slopes
  - OhC | Olivenhain cobbly loam, 2 to 9 percent slopes
  - OhE | Olivenhain cobbly loam, 9 to 30 percent slopes
  - OhF | Olivenhain cobbly loam, 30 to 50 percent slopes
  - SuB | Stockpen gravelly clay loam, 2 to 5 percent slopes



FIGURE 4  
Project Location on Soils Map





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- National Wetland Inventory**
  - Freshwater Emergent Wetland
  - Freshwater Forested/Shrub Wetland
  - Freshwater Pond
  - Riverine

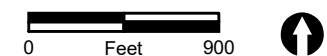
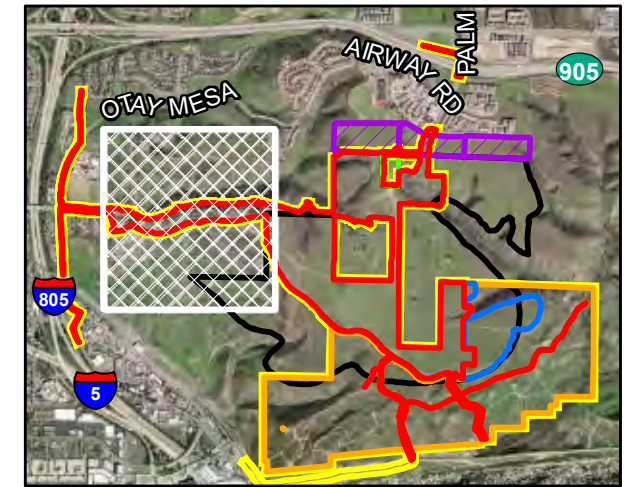
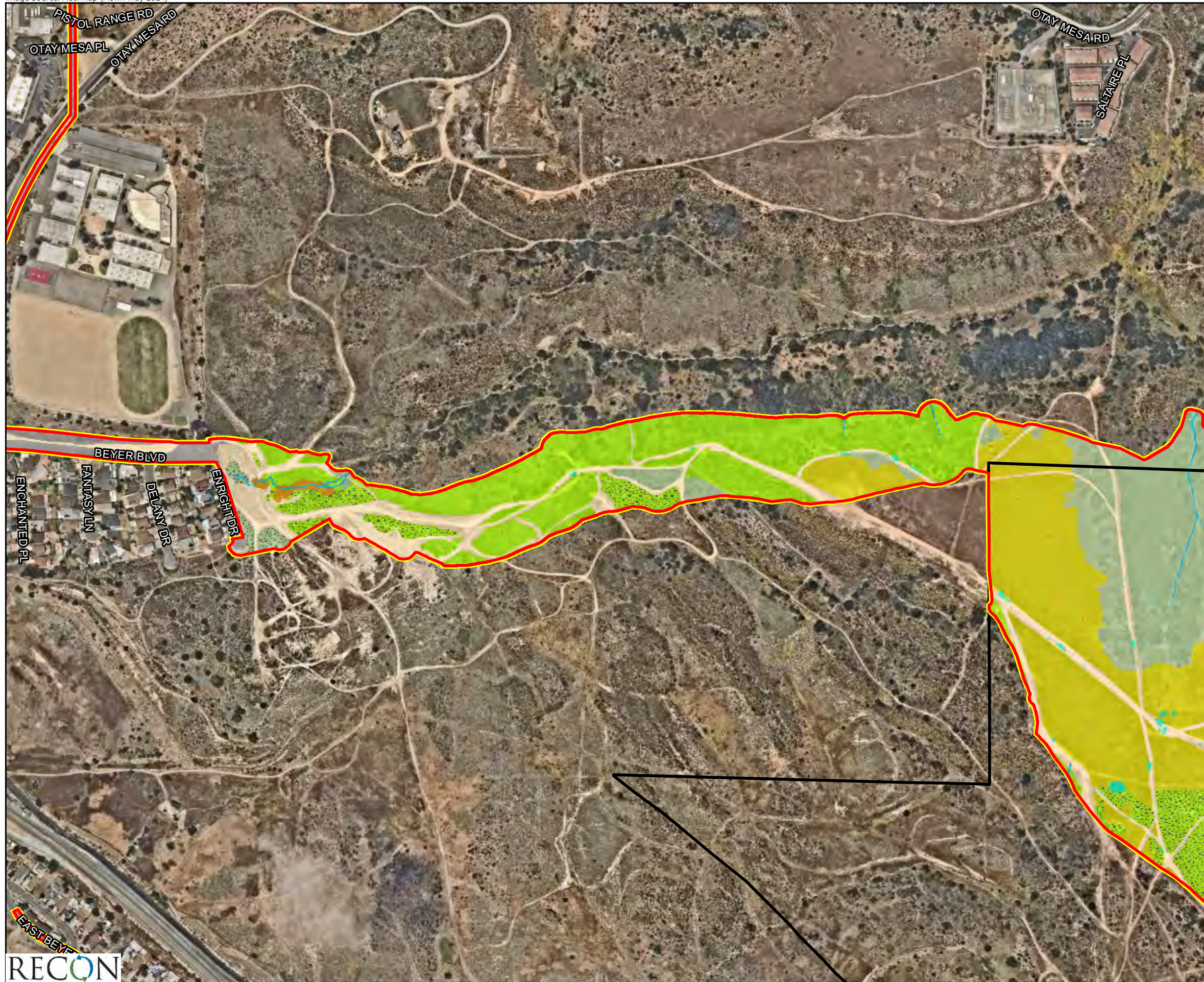


FIGURE 5  
National Wetland Inventory



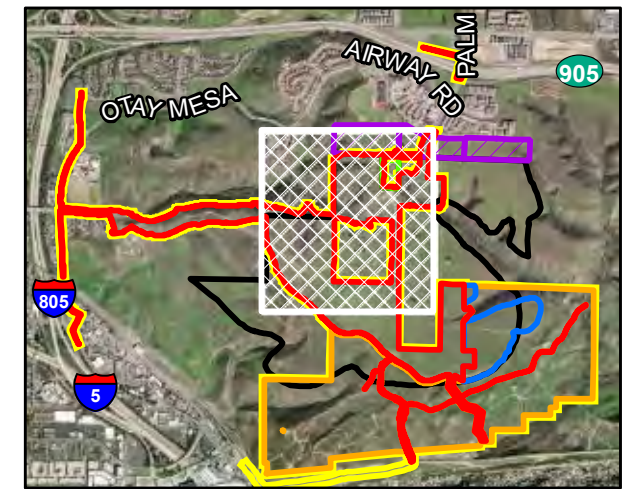
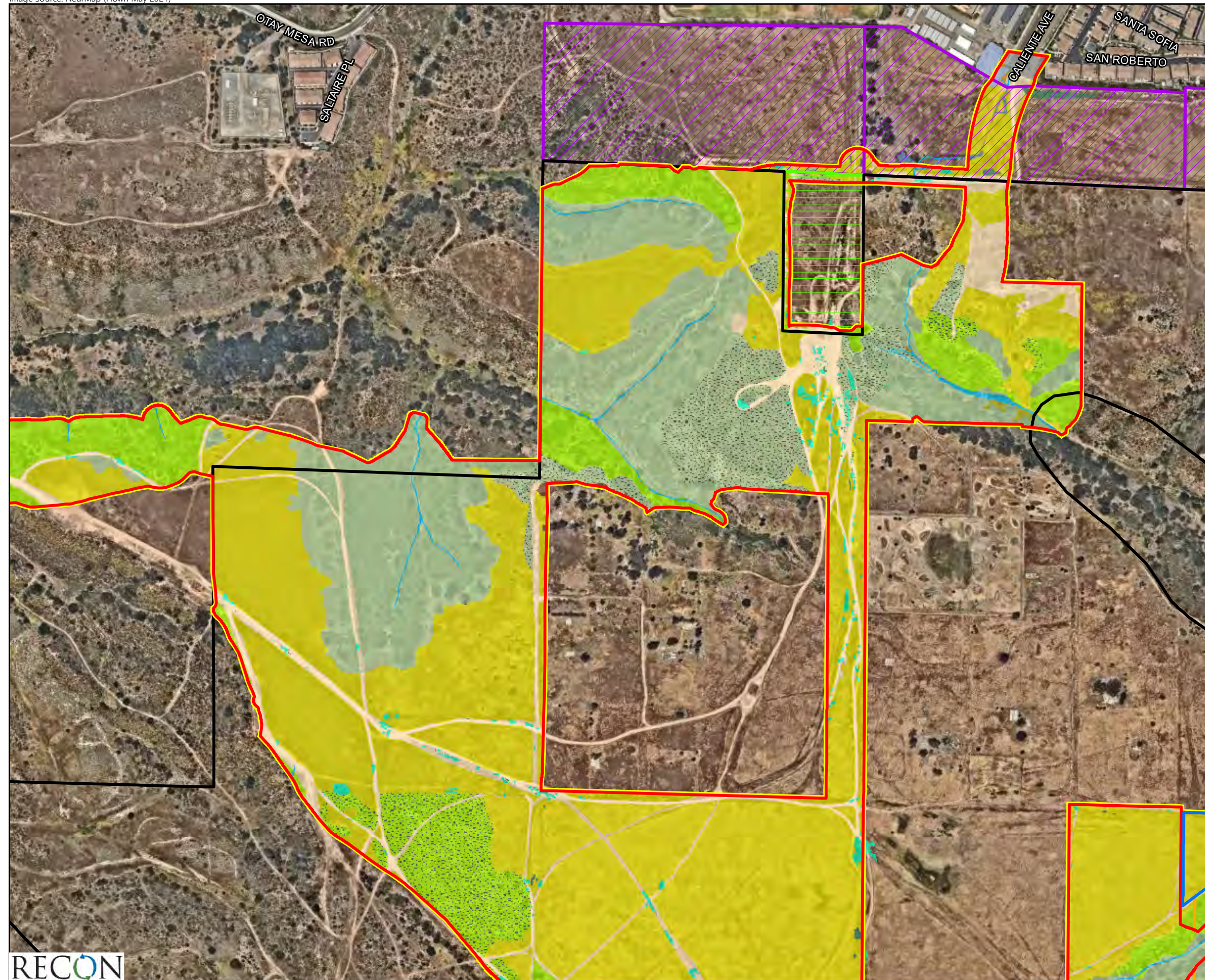


- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Southwest Village Vegetation**
- Diegan Coastal Sage Scrub
- Disturbed Diegan Coastal Sage Scrub
- Maritime Succulent Scrub
- Disturbed Maritime Succulent Scrub
- Mule Fat Scrub
- Non-native Grassland
- San Diego Mesa Claypan Vernal Pool
- Disturbed Wetland
- Non-vegetated Channel
- Disturbed Land
- Urban/Developed Land



FIGURE 6.1  
Vegetation Communities  
within the Review Area



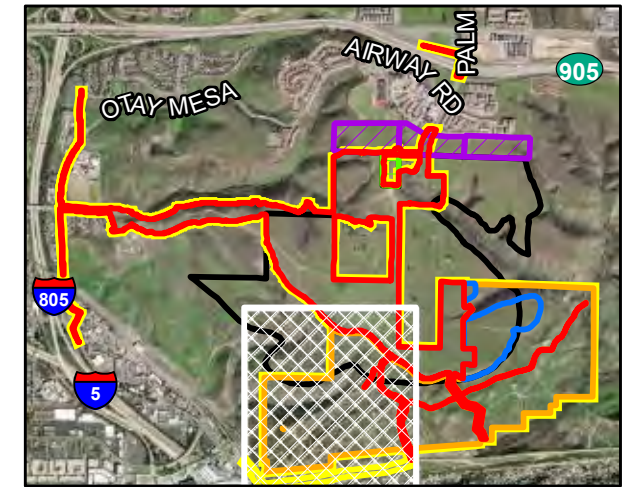
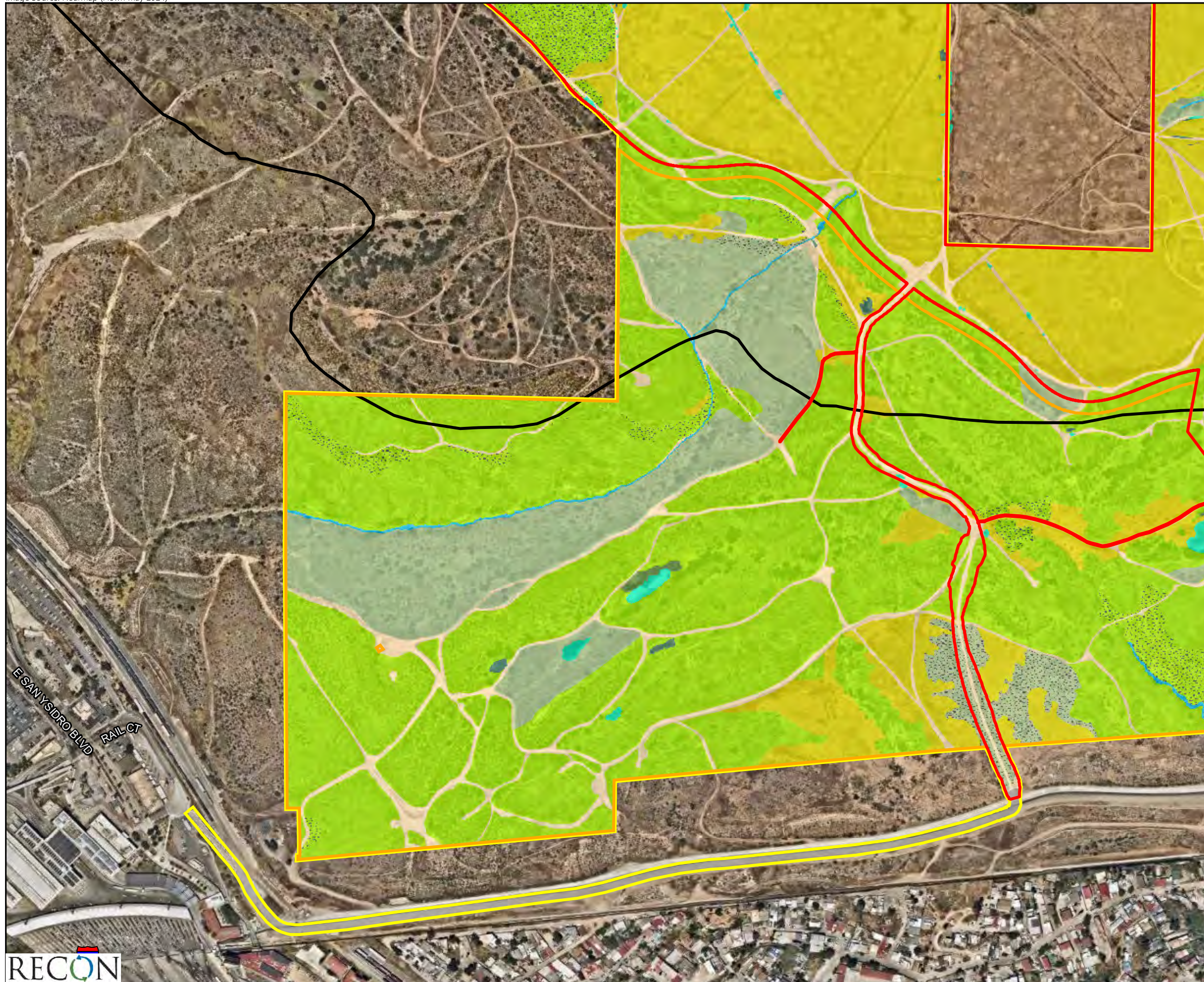


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Southwest Village Vegetation**
- Diegan Coastal Sage Scrub
  - Disturbed Diegan Coastal Sage Scrub
  - Eucalyptus Woodland
  - Maritime Succulent Scrub
  - Disturbed Maritime Succulent Scrub
  - Mule Fat Scrub
  - Native Grassland
  - Non-native Grassland
  - Southern Willow Scrub
  - Disturbed Riparian Scrub
  - San Diego Mesa Claypan Vernal Pool
  - Wetland
  - Disturbed Wetland
  - Non-vegetated Channel
  - Disturbed Land
  - Urban/Developed Land



FIGURE 6.2  
Vegetation Communities  
within the Review Area



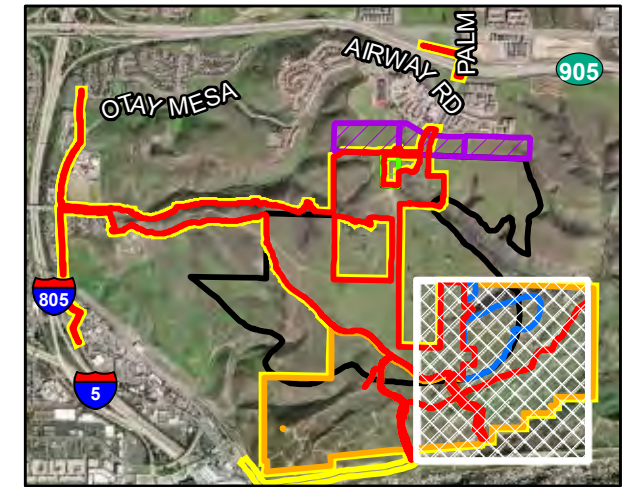
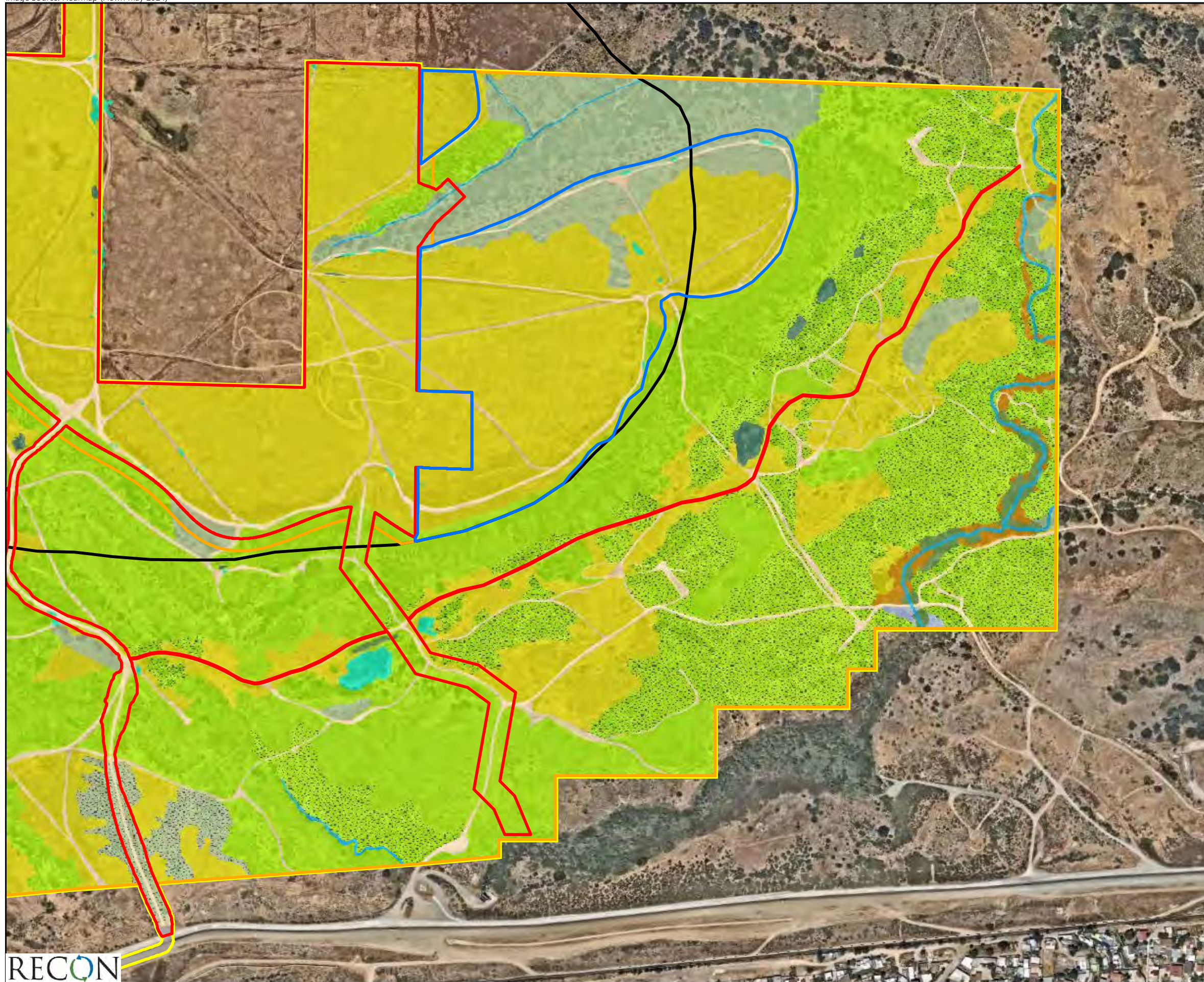


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Southwest Village Vegetation**
- Diegan Coastal Sage Scrub
  - Disturbed Diegan Coastal Sage Scrub
  - Maritime Succulent Scrub
  - Disturbed Maritime Succulent Scrub
  - Tamarisk Scrub
  - Non-native Grassland
  - San Diego Mesa Claypan Vernal Pool
  - Disturbed Wetland
  - Non-vegetated Channel
  - Disturbed Land
  - Urban/Developed Land



FIGURE 6.3  
Vegetation Communities  
within the Review Area



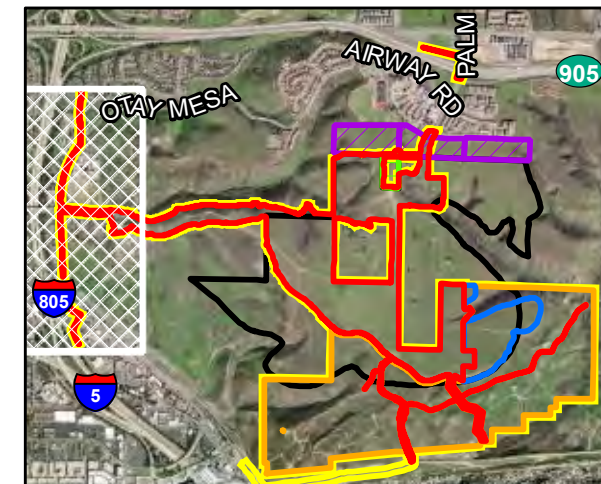
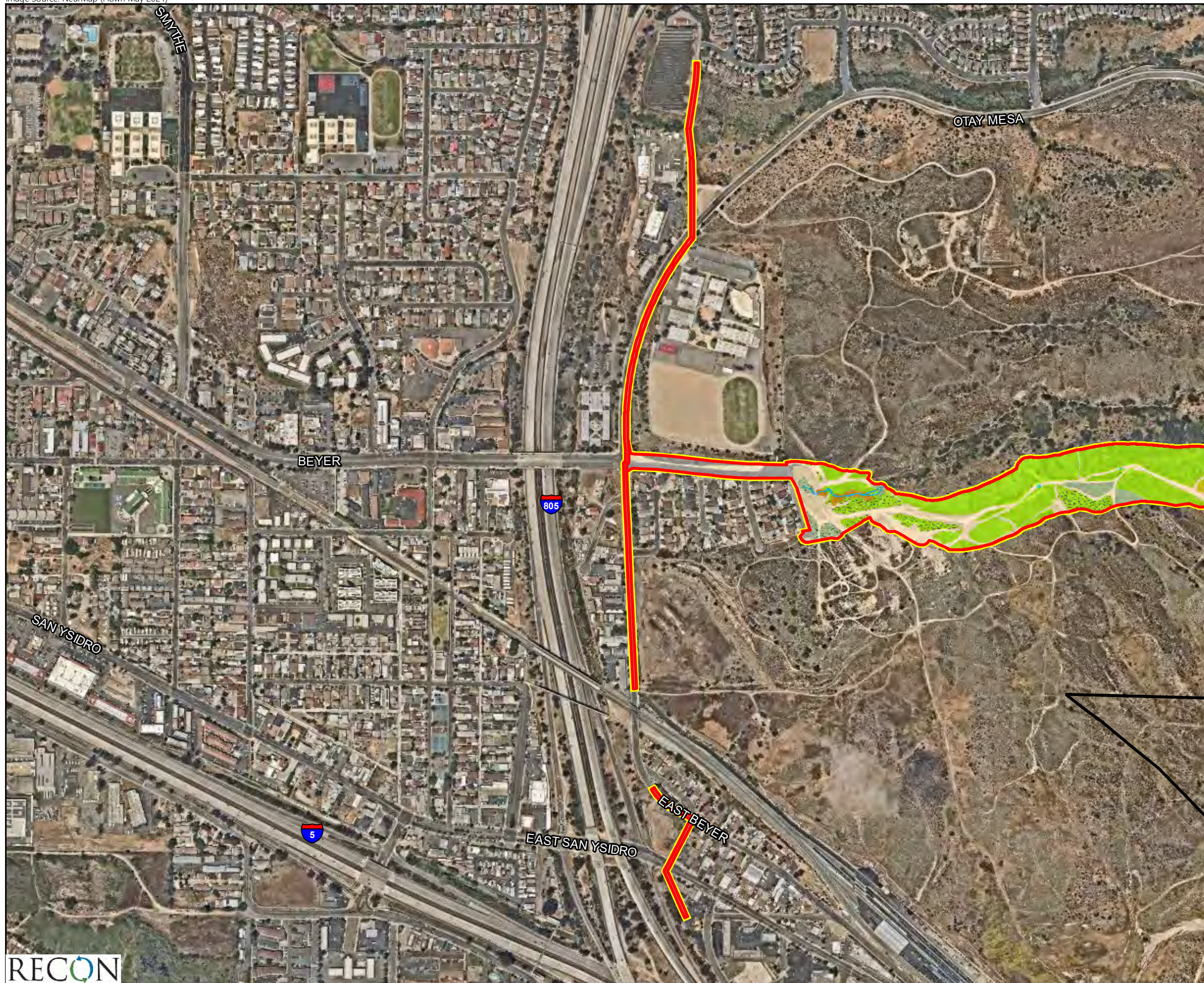


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Southwest Village Vegetation**
- Diegan Coastal Sage Scrub
  - Disturbed Diegan Coastal Sage Scrub
  - Maritime Succulent Scrub
  - Disturbed Maritime Succulent Scrub
  - Mule Fat Scrub
  - Tamarisk Scrub
  - Non-native Grassland
  - Southern Willow Scrub
  - San Diego Mesa Claypan Vernal Pool
  - Disturbed Wetland
  - Non-vegetated Channel
  - Disturbed Land
  - Urban/Developed Land



FIGURE 6.4  
Vegetation Communities  
within the Review Area



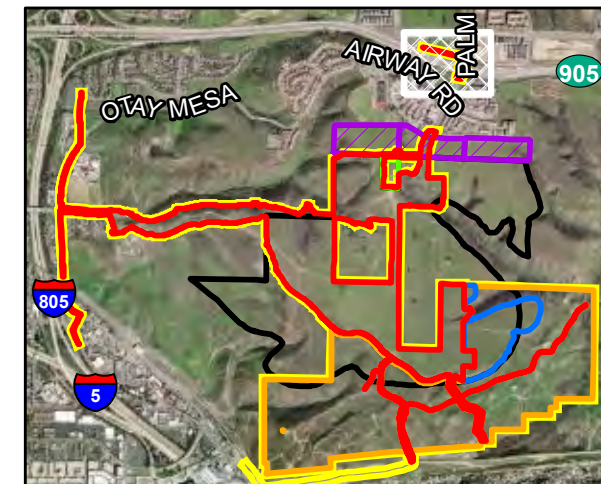
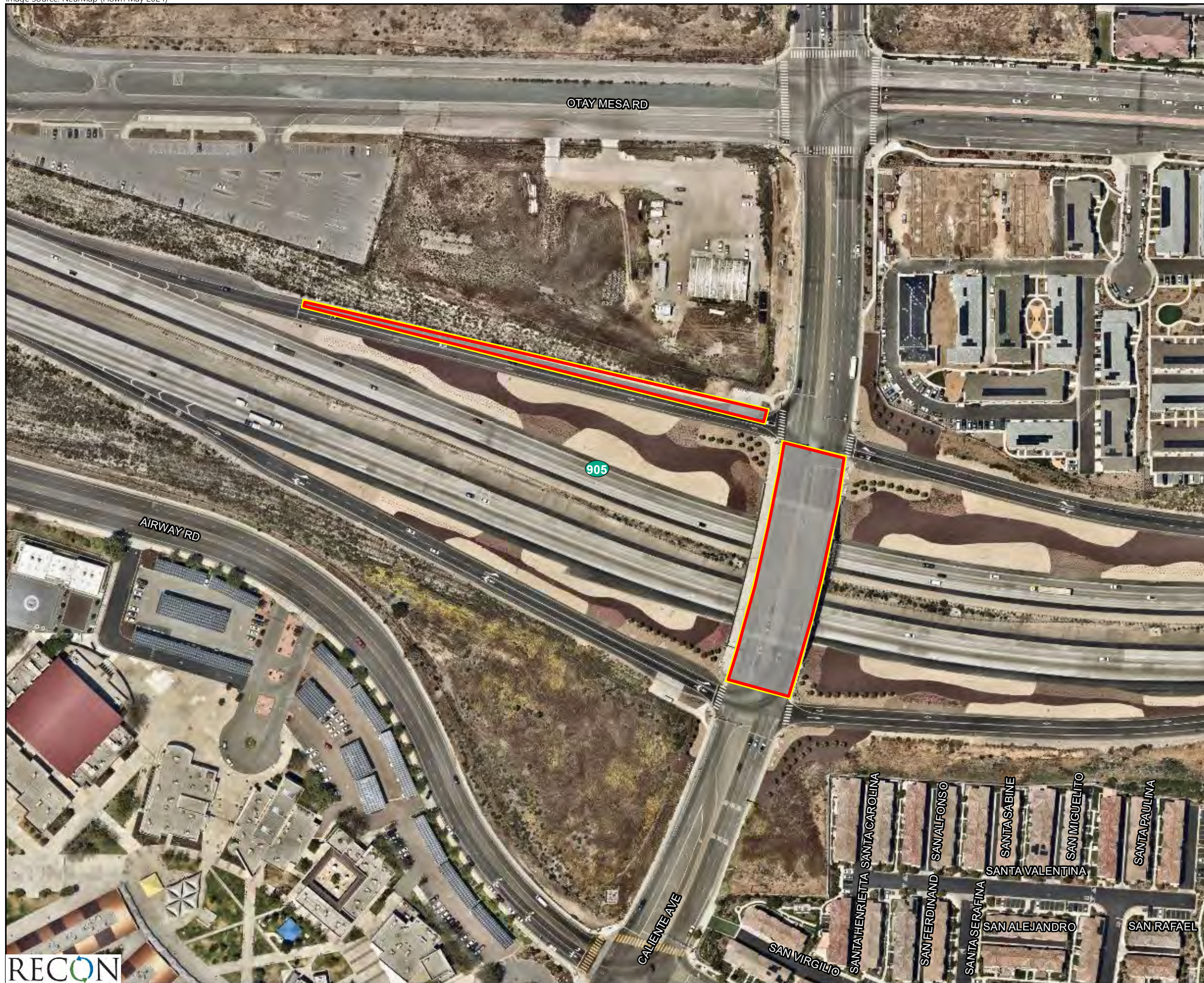


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Southwest Village Vegetation**
- Diegan Coastal Sage Scrub
  - Disturbed Diegan Coastal Sage Scrub
  - Maritime Succulent Scrub
  - Disturbed Maritime Succulent Scrub
  - Mule Fat Scrub
  - Non-native Grassland
  - San Diego Mesa Claypan Vernal Pool
  - Disturbed Wetland
  - Non-vegetated Channel
  - Disturbed Land
  - Urban/Developed Land



FIGURE 6.5  
Vegetation Communities  
within the Review Area





- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Southwest Village Vegetation**
- Disturbed Land
  - Urban/Developed Land

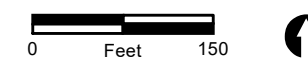
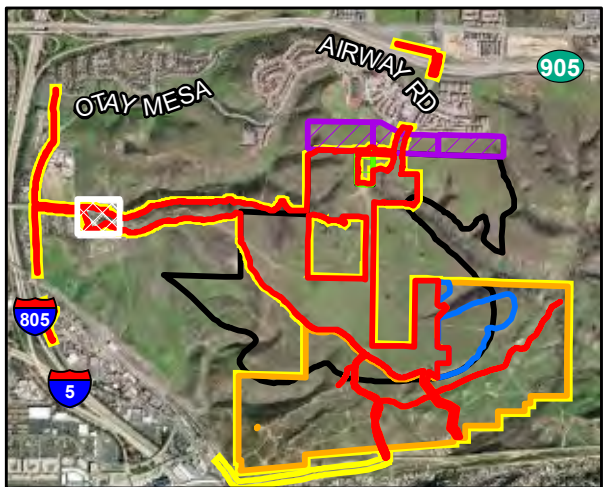
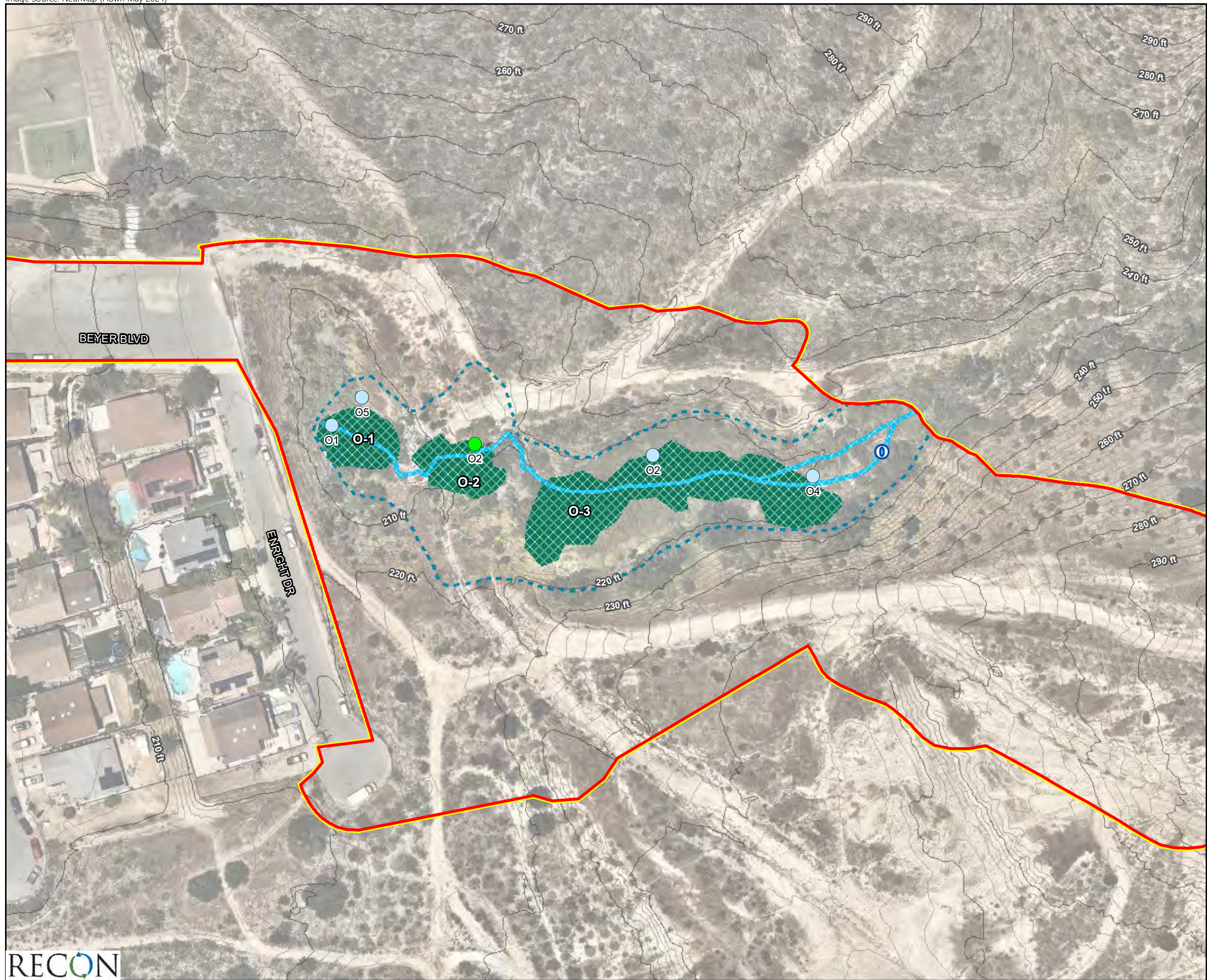


FIGURE 6.6  
Vegetation Communities  
within the Review Area



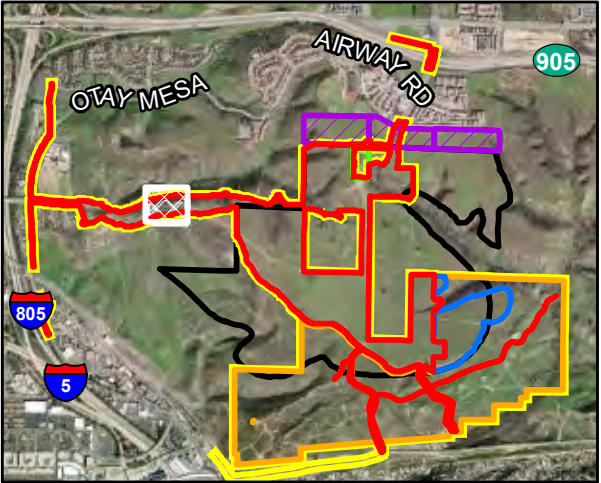


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - Wetland Data Form Point (WDP)
  - OHWM Data Sheet Point (ODP)
- Aquatic Resources**
- Non-wetland Waters
  - Riparian
  - Non-wetland Water 2-year Flow
  - Potential SWRCB and CDFW Waters of the State



FIGURE 7.1  
Aquatic Resources Delineated  
within the Review Area



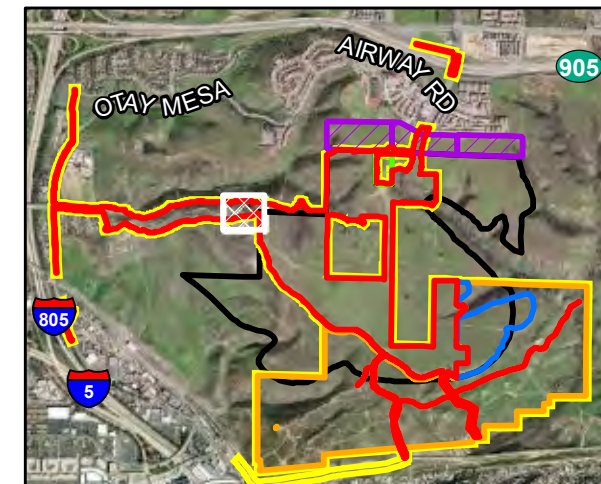
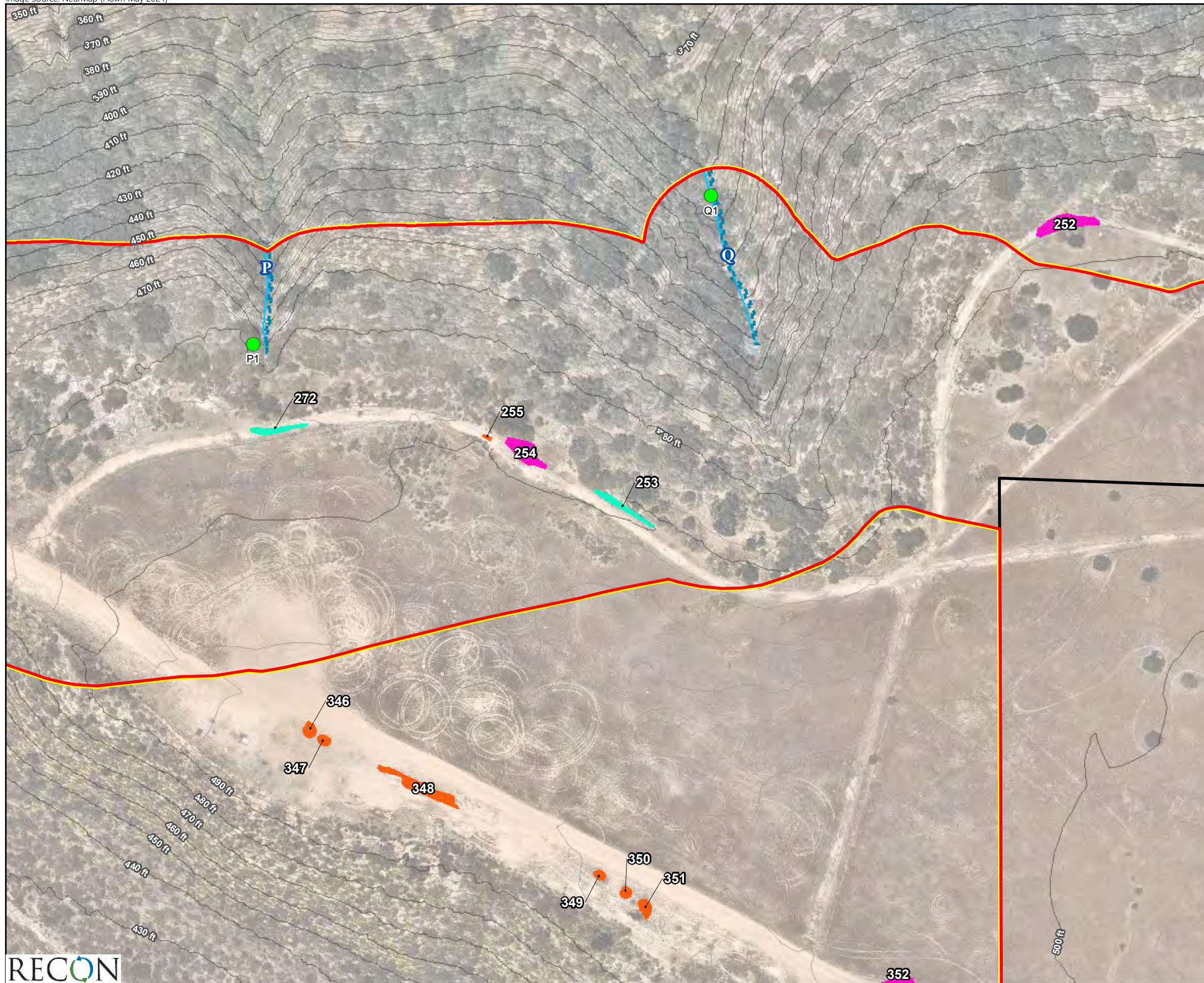


- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Aquatic Resources**
  - Vernal Pool Basin
  - Seasonal Basin



FIGURE 7.2  
Aquatic Resources Delineated  
within the Review Area



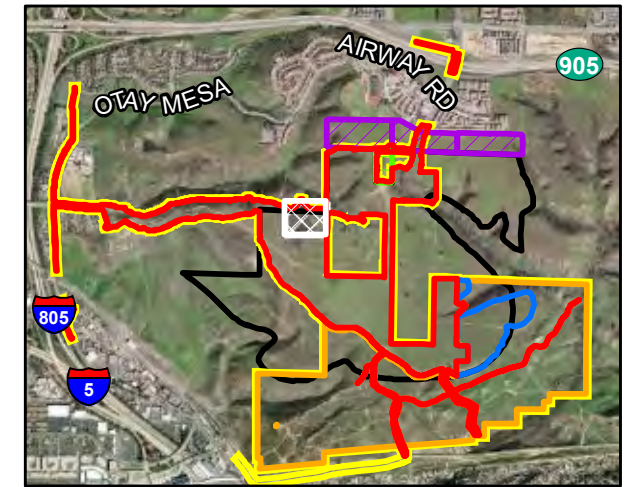
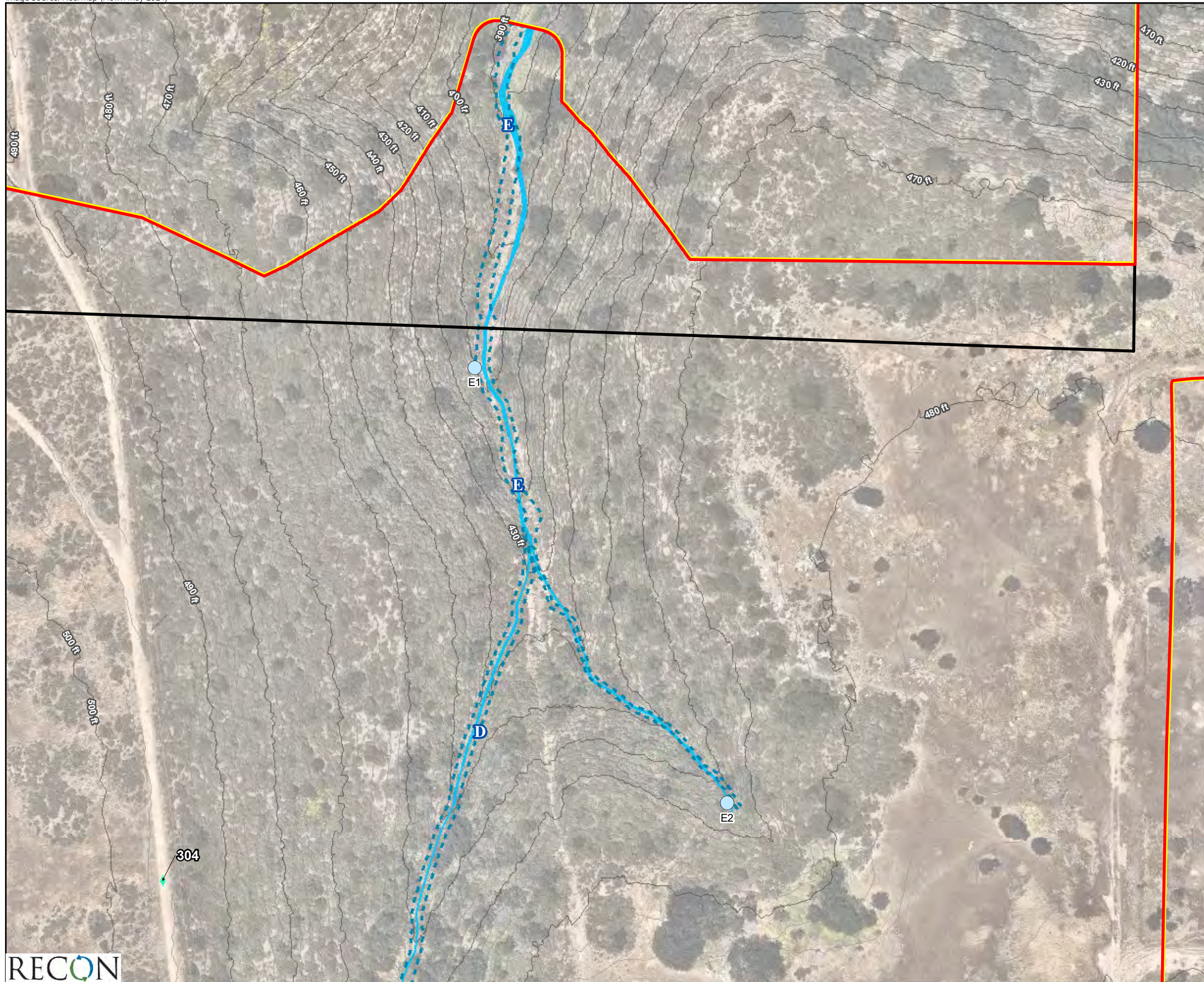


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - OHWM Data Sheet Point (ODP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Basin
  - Vernal Pool Wetland
  - Seasonal Basin
  - Non-wetland Water 2-year Flow



FIGURE 7.3  
Aquatic Resources Delineated  
within the Review Area



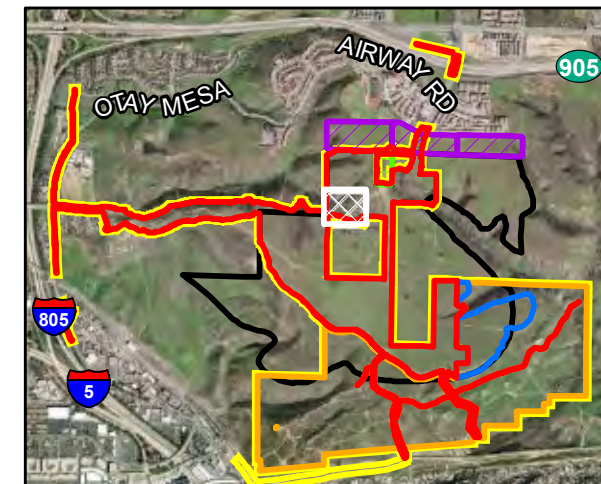


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - Wetland Data Form Point (WDP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Basin
  - Non-wetland Water 2-year Flow



FIGURE 7.4  
Aquatic Resources Delineated  
within the Review Area





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Wetland Data Form Point (WDP)

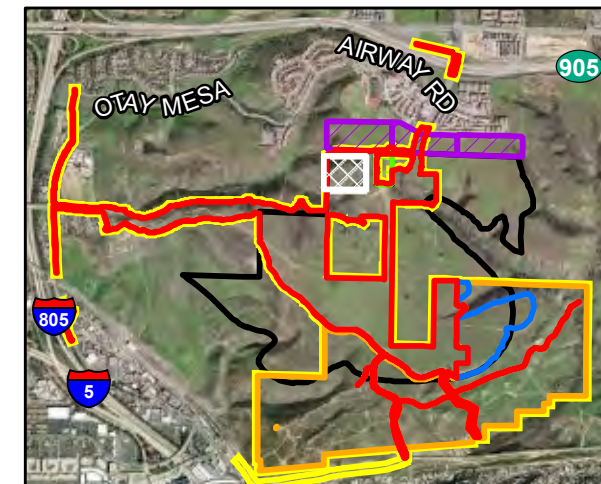
#### Aquatic Resources

- Non-wetland Waters
- Vernal Pool Basin
- Vernal Pool Wetland
- Non-wetland Water 2-year Flow



FIGURE 7.5  
Aquatic Resources Delineated  
within the Review Area





- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - Wetland Data Form Point (WDP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Basin
  - Non-wetland Water 2-year Flow

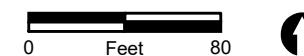
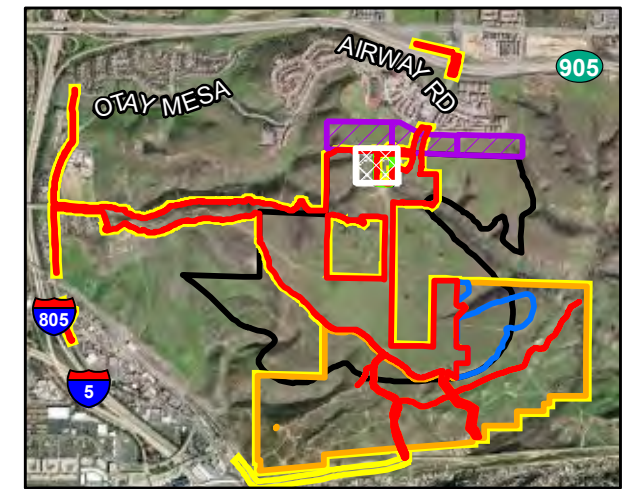
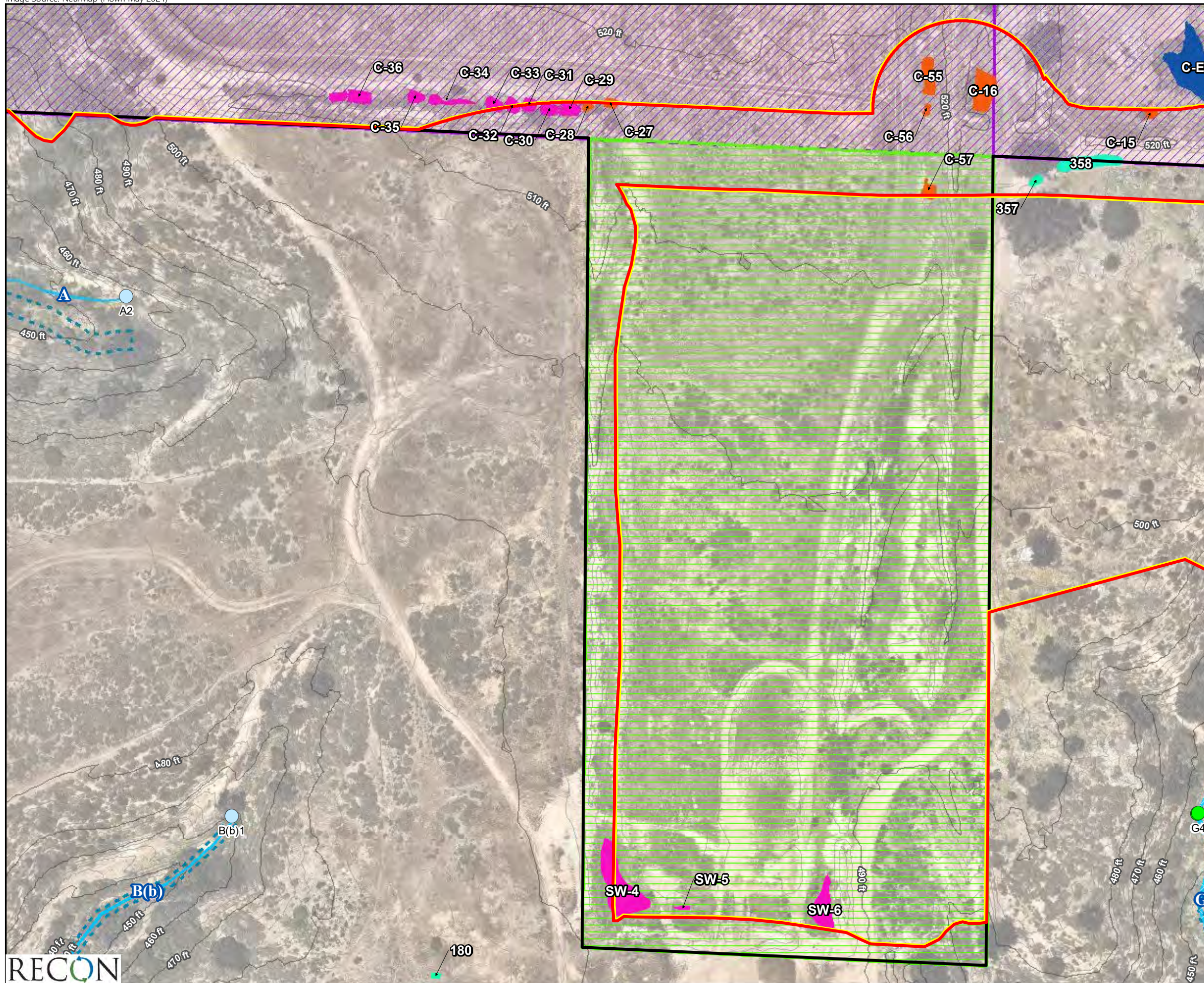


FIGURE 7.6  
Aquatic Resources Delineated  
within the Review Area





- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - Wetland Data Form Point (WDP)
  - OHWM Data Sheet Point (ODP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Basin
  - Vernal Pool Wetland
  - Wetland
  - Seasonal Basin
  - Non-wetland Water 2-year Flow
  - Potential SWRCB and CDFW Waters of the State

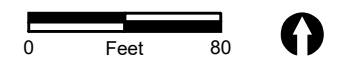
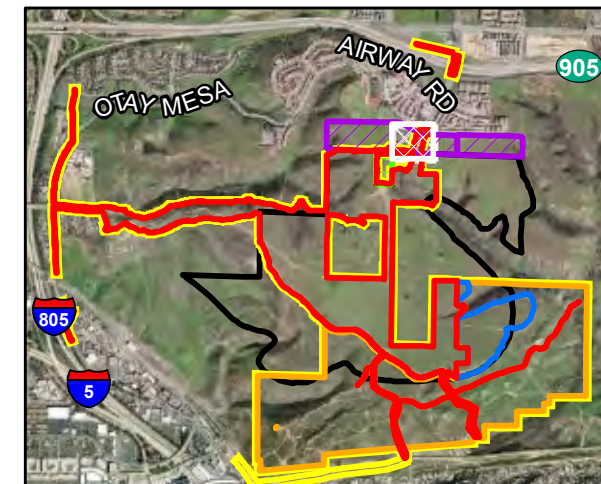
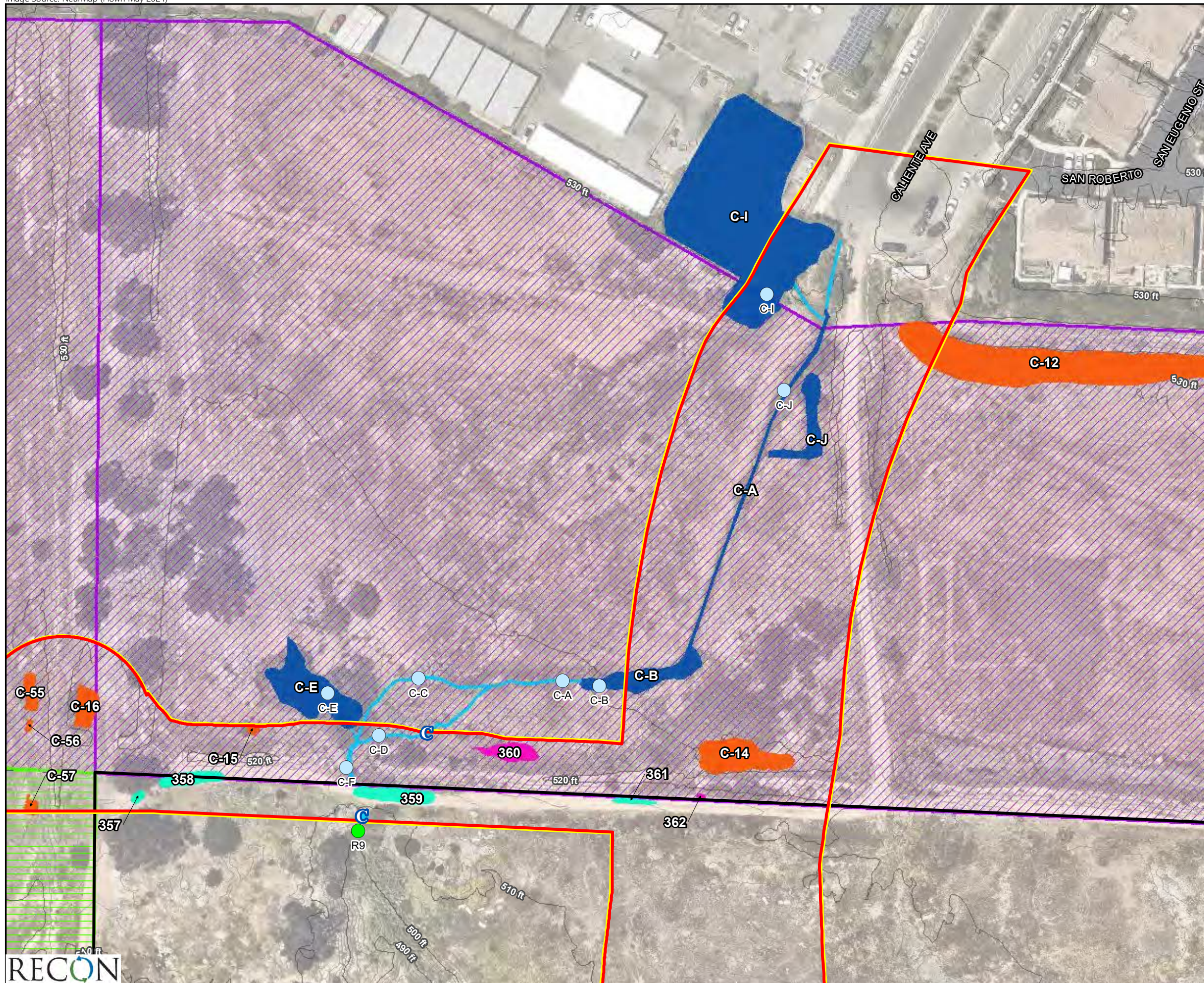


FIGURE 7.7  
Aquatic Resources Delineated  
within the Review Area





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Wetland Data Form Point (WDP)
- OHWM Data Sheet Point (ODP)

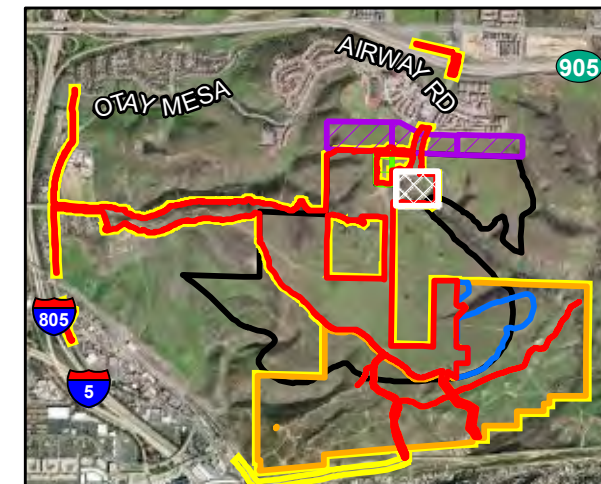
#### Aquatic Resources

- Non-wetland Waters
- Vernal Pool Basin
- Vernal Pool Wetland
- Wetland
- Seasonal Basin



FIGURE 7.8  
Aquatic Resources Delineated  
within the Review Area



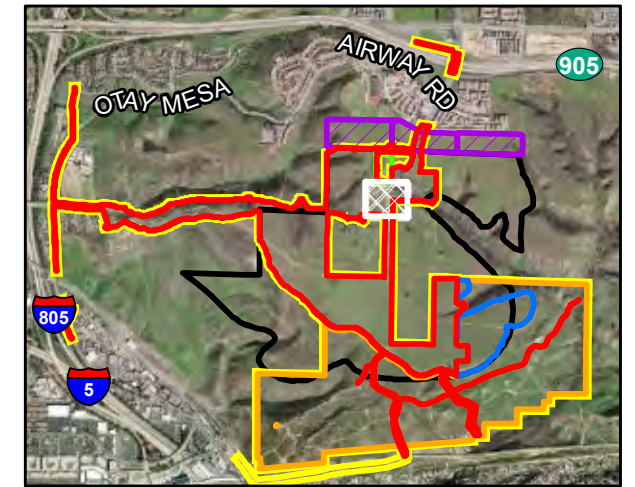
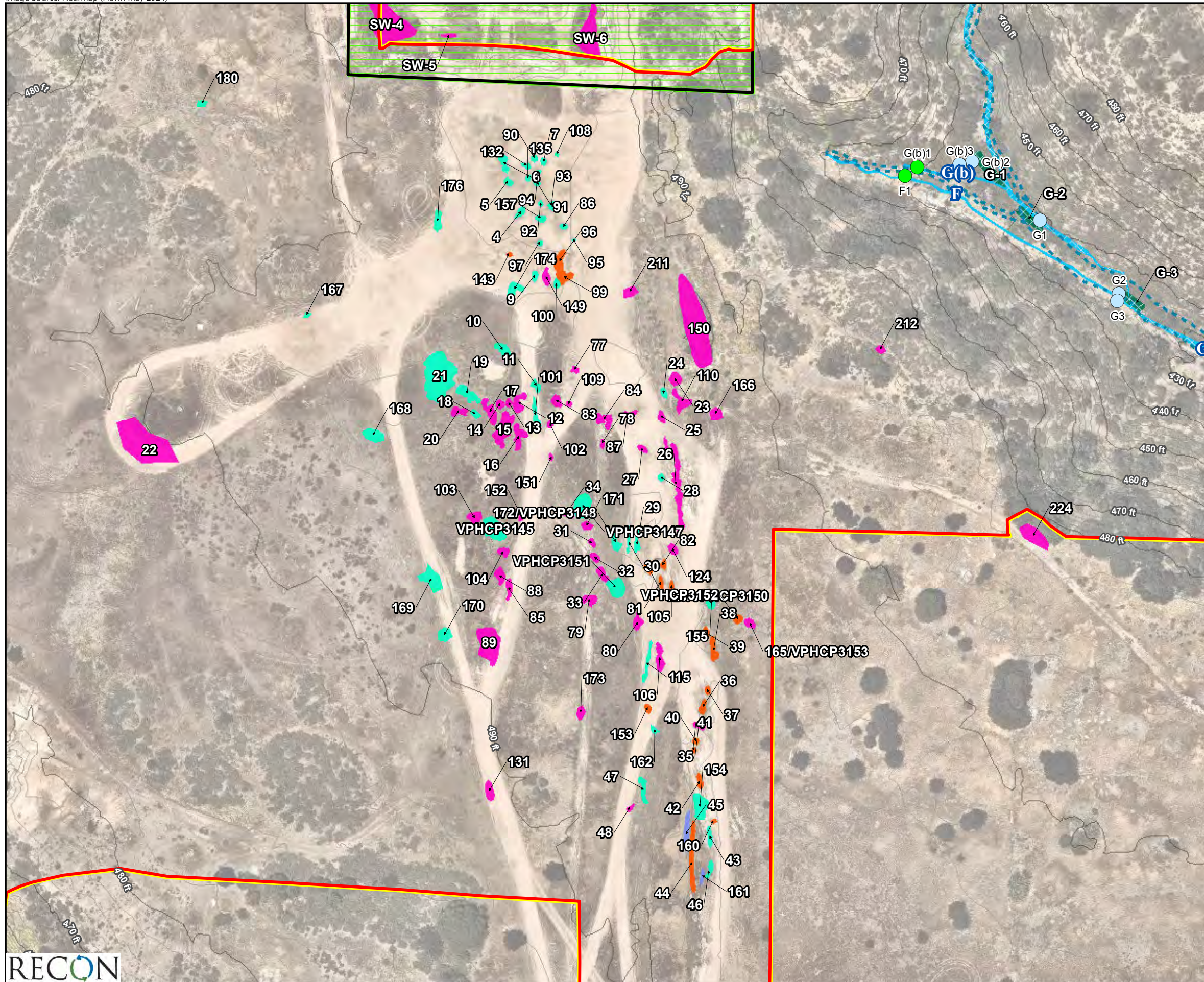


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - Wetland Data Form Point (WDP)
  - OHWM Data Sheet Point (ODP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Wetland
  - Riparian
  - Non-wetland Water 2-year Flow
  - Potential SWRCB and CDFW Waters of the State



FIGURE 7.9  
Aquatic Resources Delineated  
within the Review Area



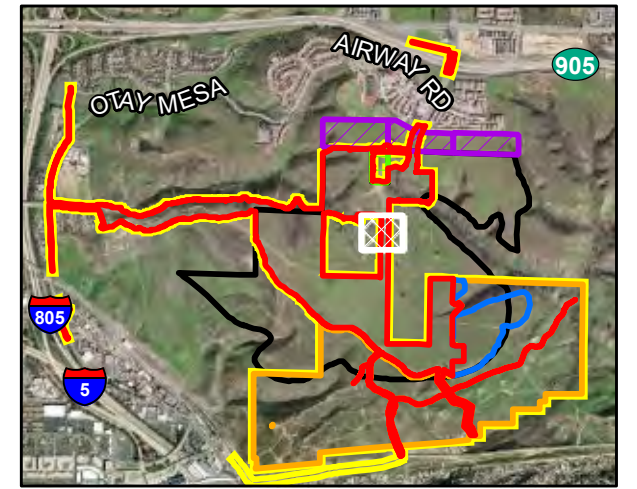
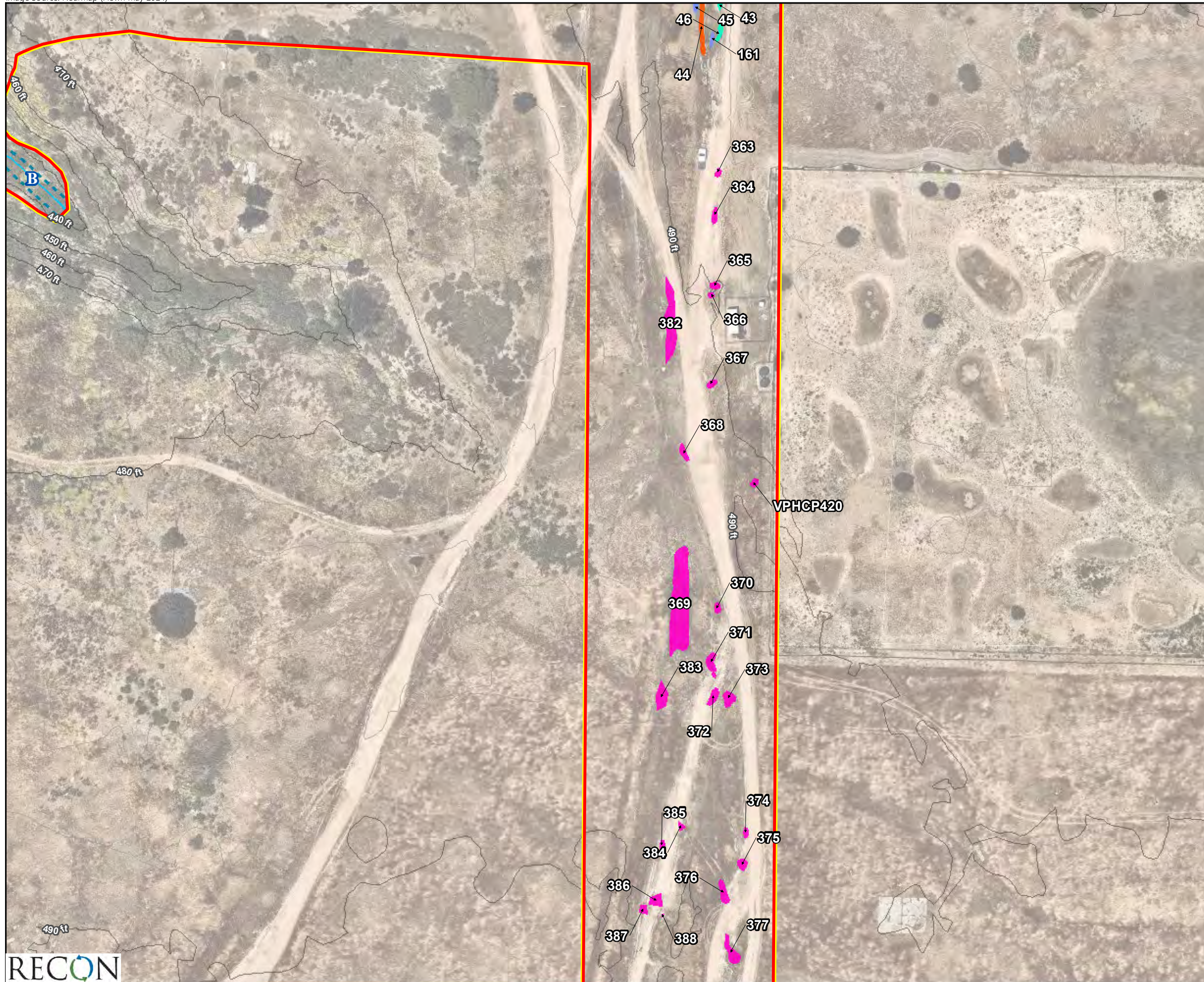


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - Wetland Data Form Point (WDP)
  - OHWM Data Sheet Point (ODP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland
  - Seasonal Basin
  - Riparian
  - Non-wetland Water 2-year Flow
  - Potential SWRCB and CDFW Waters of the State



FIGURE 7.10  
Aquatic Resources Delineated  
within the Review Area



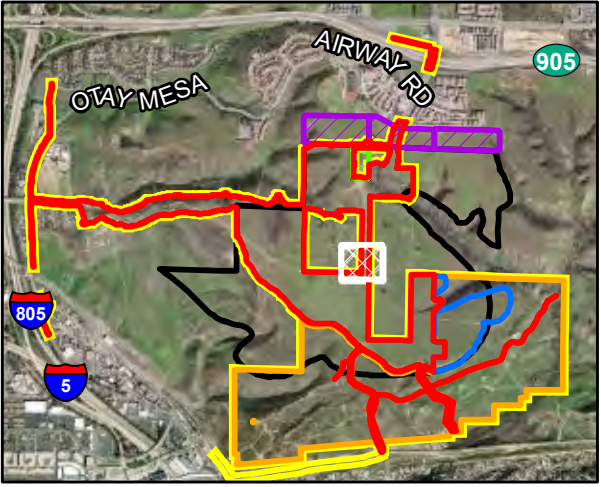
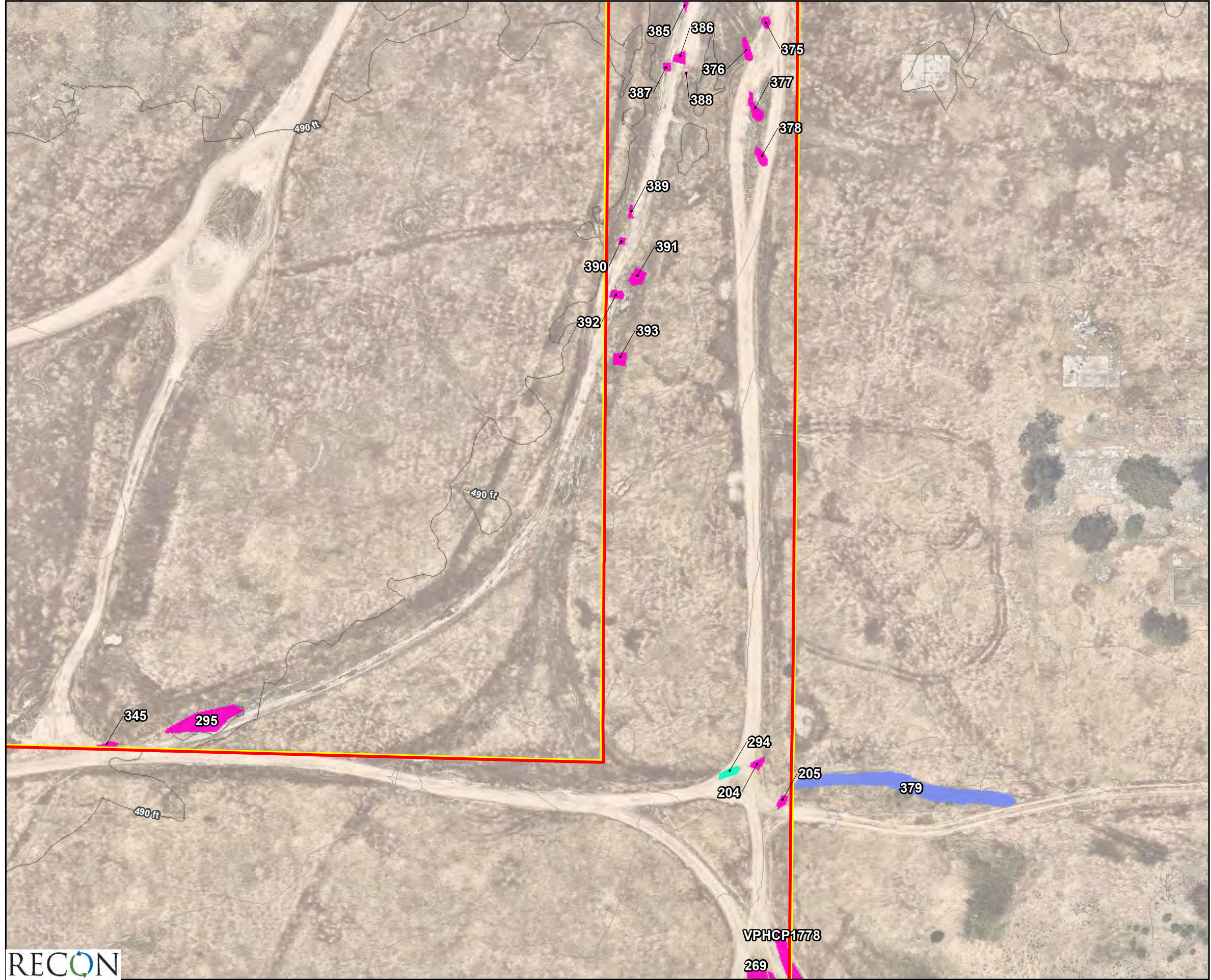


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland
  - Seasonal Basin
  - Non-wetland Water 2-year Flow



FIGURE 7.11  
Aquatic Resources Delineated  
within the Review Area



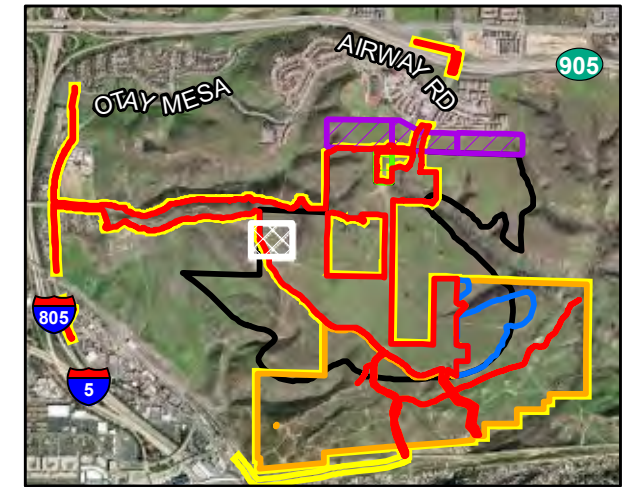
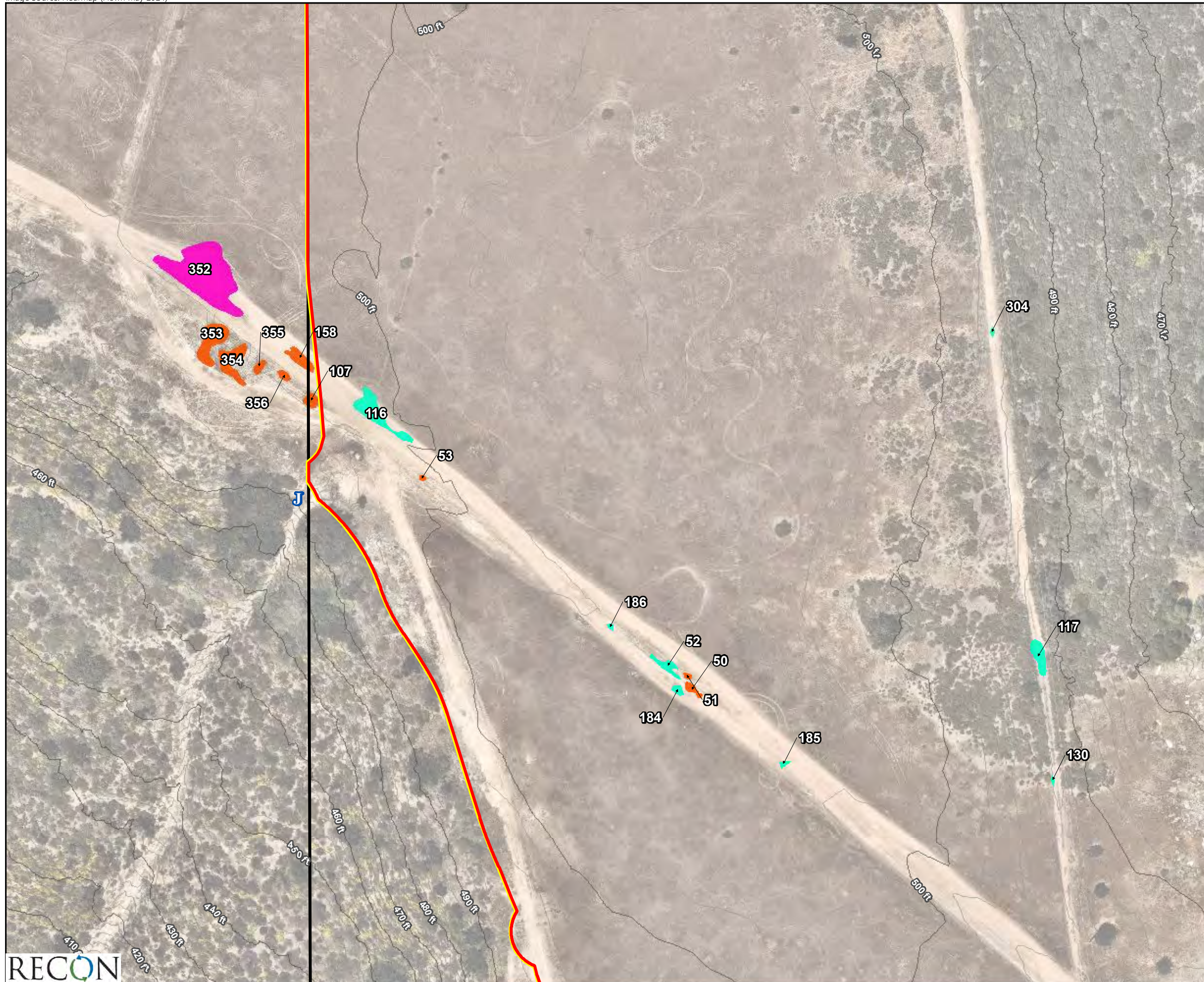


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland



FIGURE 7.12  
Aquatic Resources Delineated  
within the Review Area





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Aquatic Resources**
  - Vernal Pool Basin
  - Vernal Pool Wetland
  - Seasonal Basin

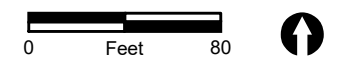
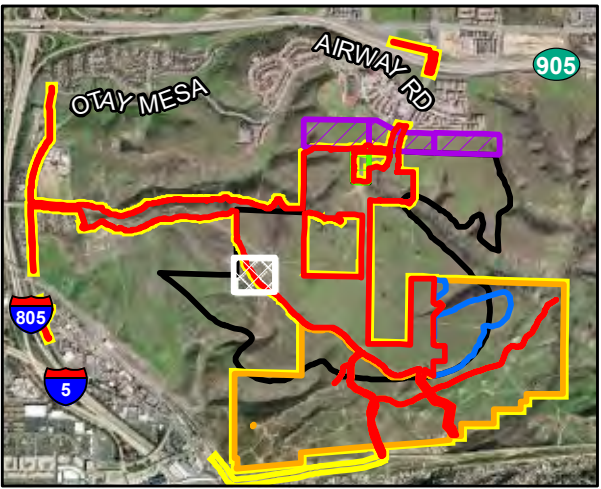
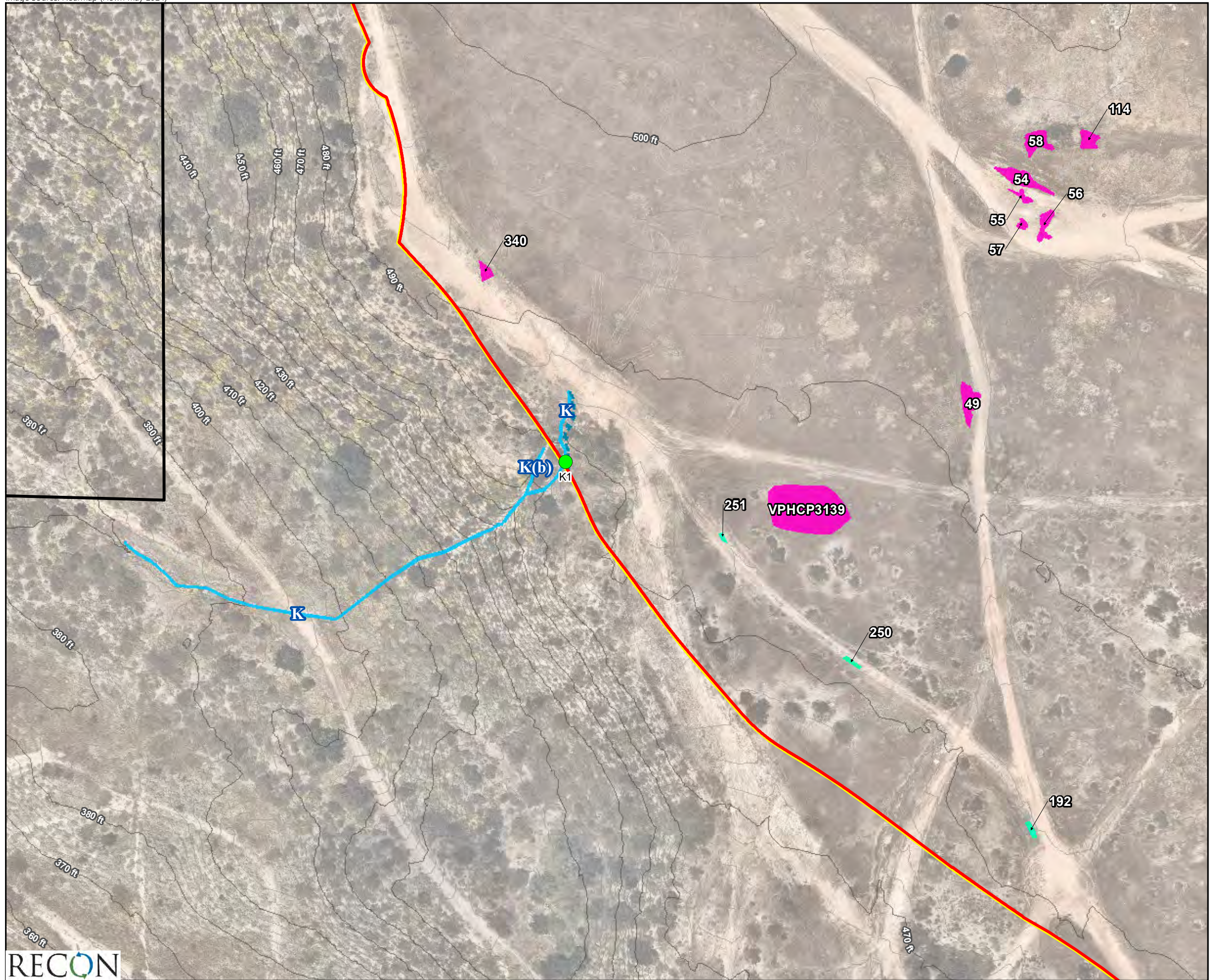


FIGURE 7.13  
Aquatic Resources Delineated  
within the Review Area





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- OHPM Data Sheet Point (ODP)

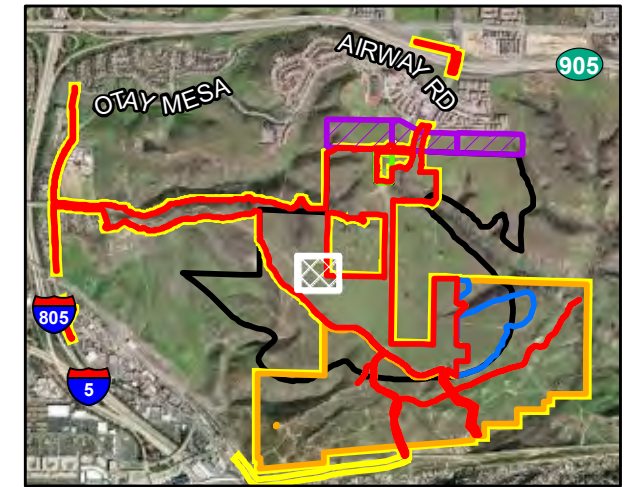
**Aquatic Resources**

- Non-wetland Waters
- Vernal Pool Basin
- Vernal Pool Wetland
- Non-wetland Water 2-year Flow



FIGURE 7.14  
Aquatic Resources Delineated  
within the Review Area





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area

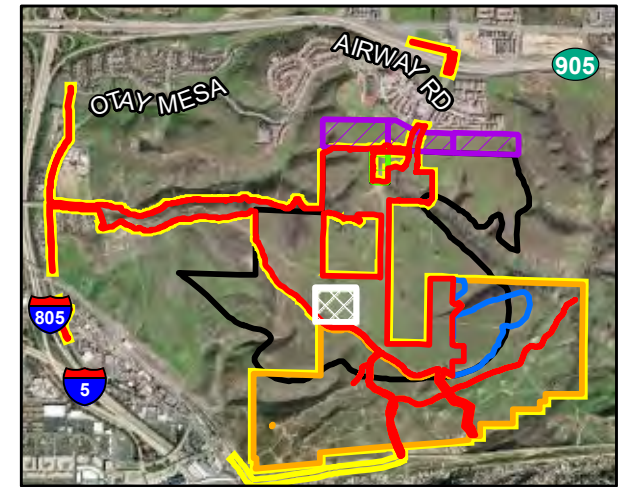
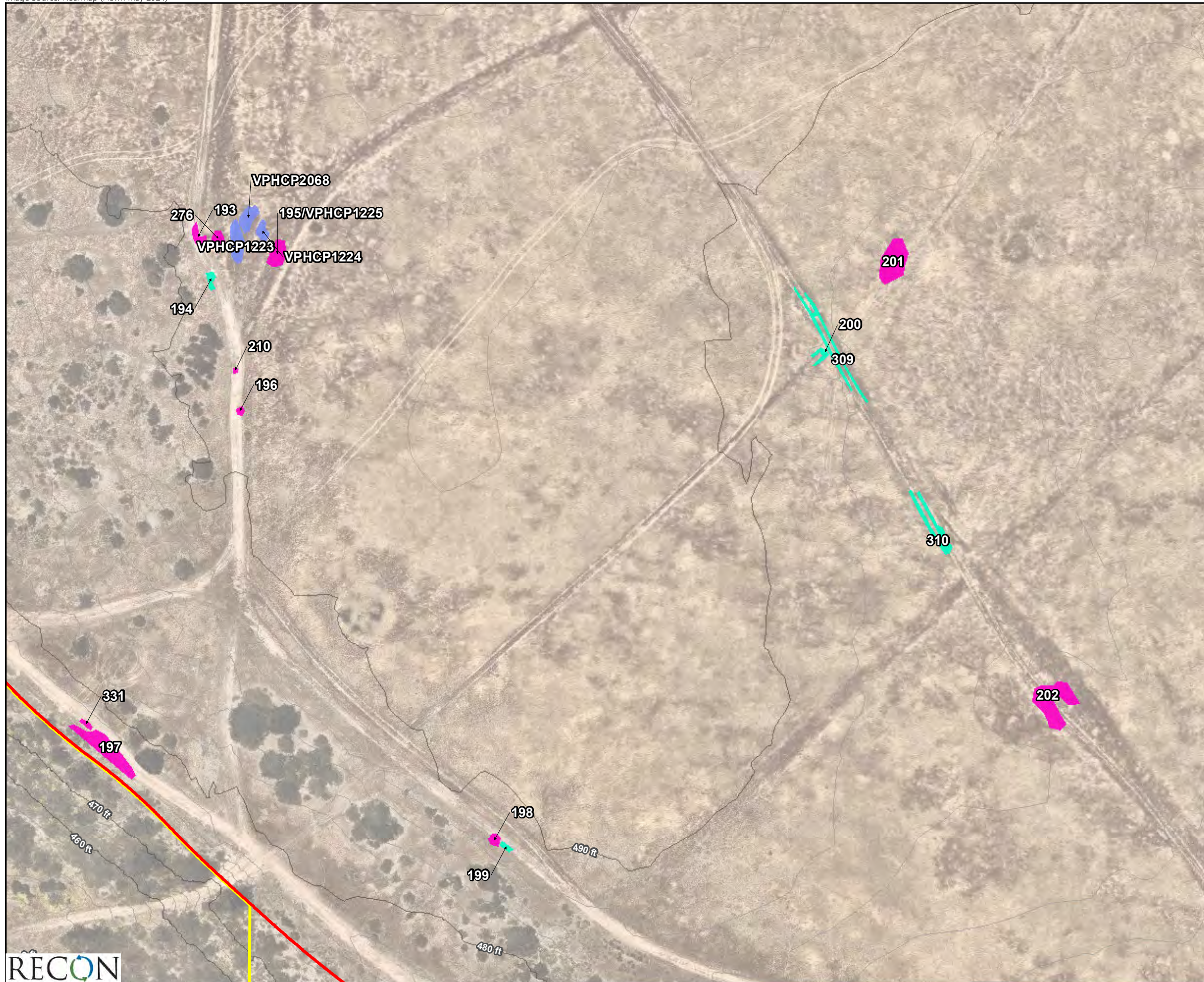
**Aquatic Resources**

- Vernal Pool Basin
- Vernal Pool Wetland
- Disturbed Wetland
- Seasonal Basin



FIGURE 7.15  
Aquatic Resources Delineated  
within the Review Area



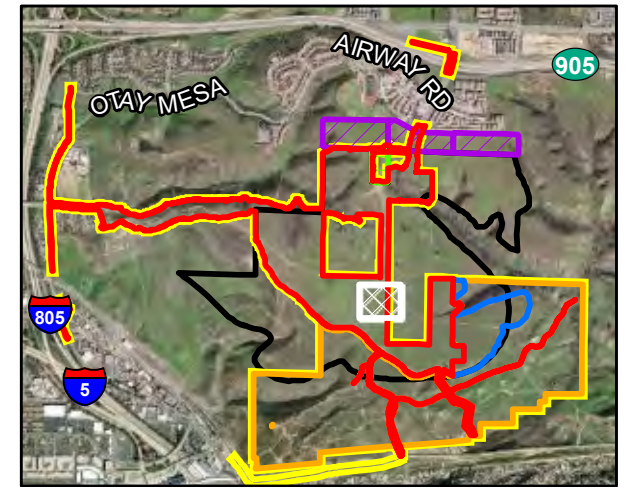


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland



FIGURE 7.16  
Aquatic Resources Delineated  
within the Review Area



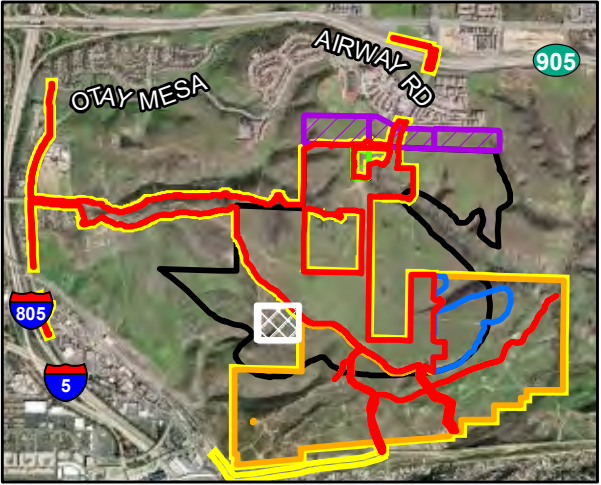


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland



FIGURE 7.17  
Aquatic Resources Delineated  
within the Review Area



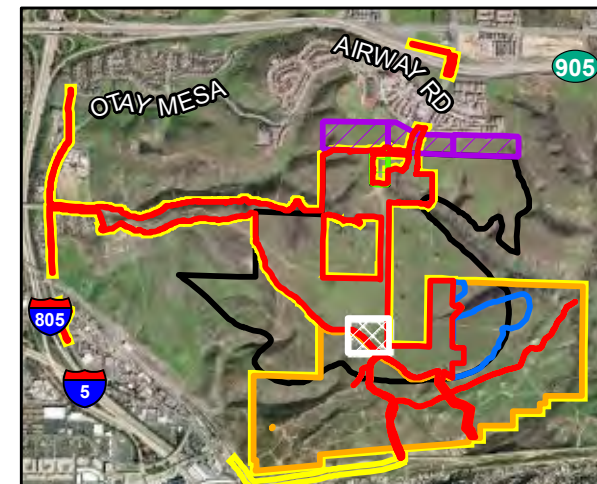
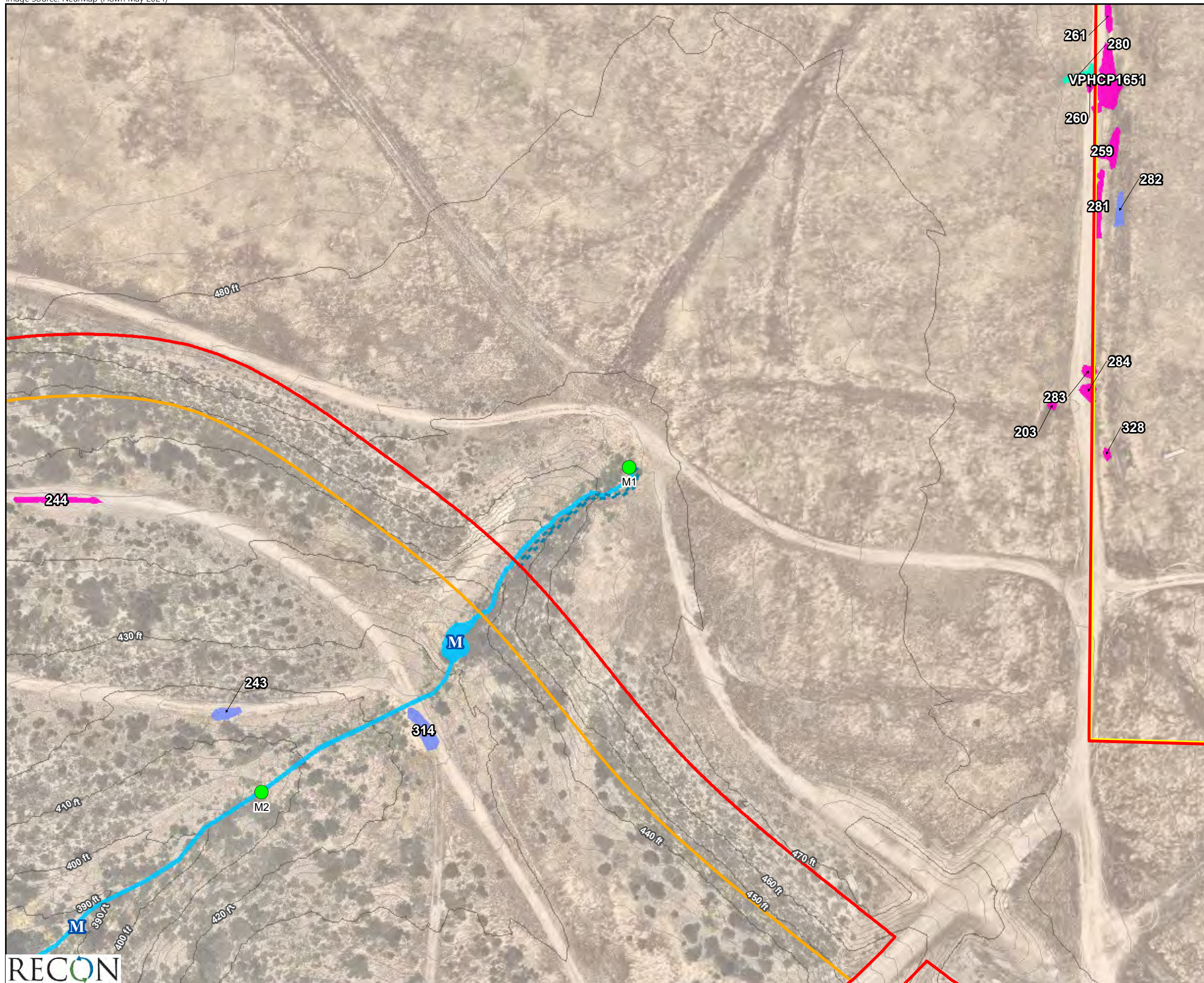


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - OHWM Data Sheet Point (ODP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Basin
  - Vernal Pool Wetland



FIGURE 7.18  
Aquatic Resources Delineated  
within the Review Area





- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - OHWM Data Sheet Point (ODP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland
  - Non-wetland Water 2-year Flow

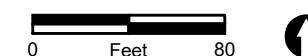
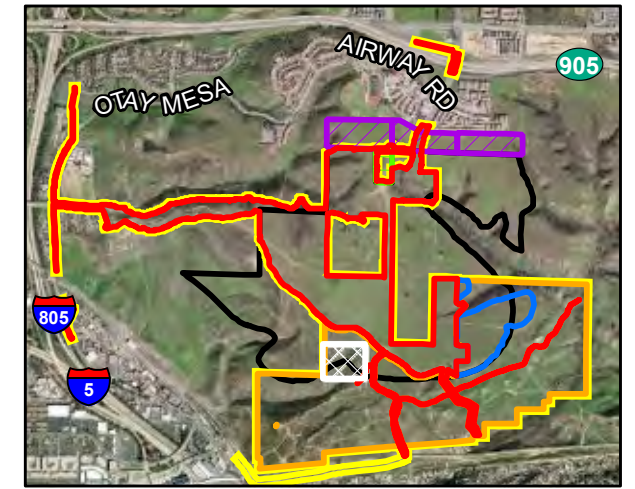
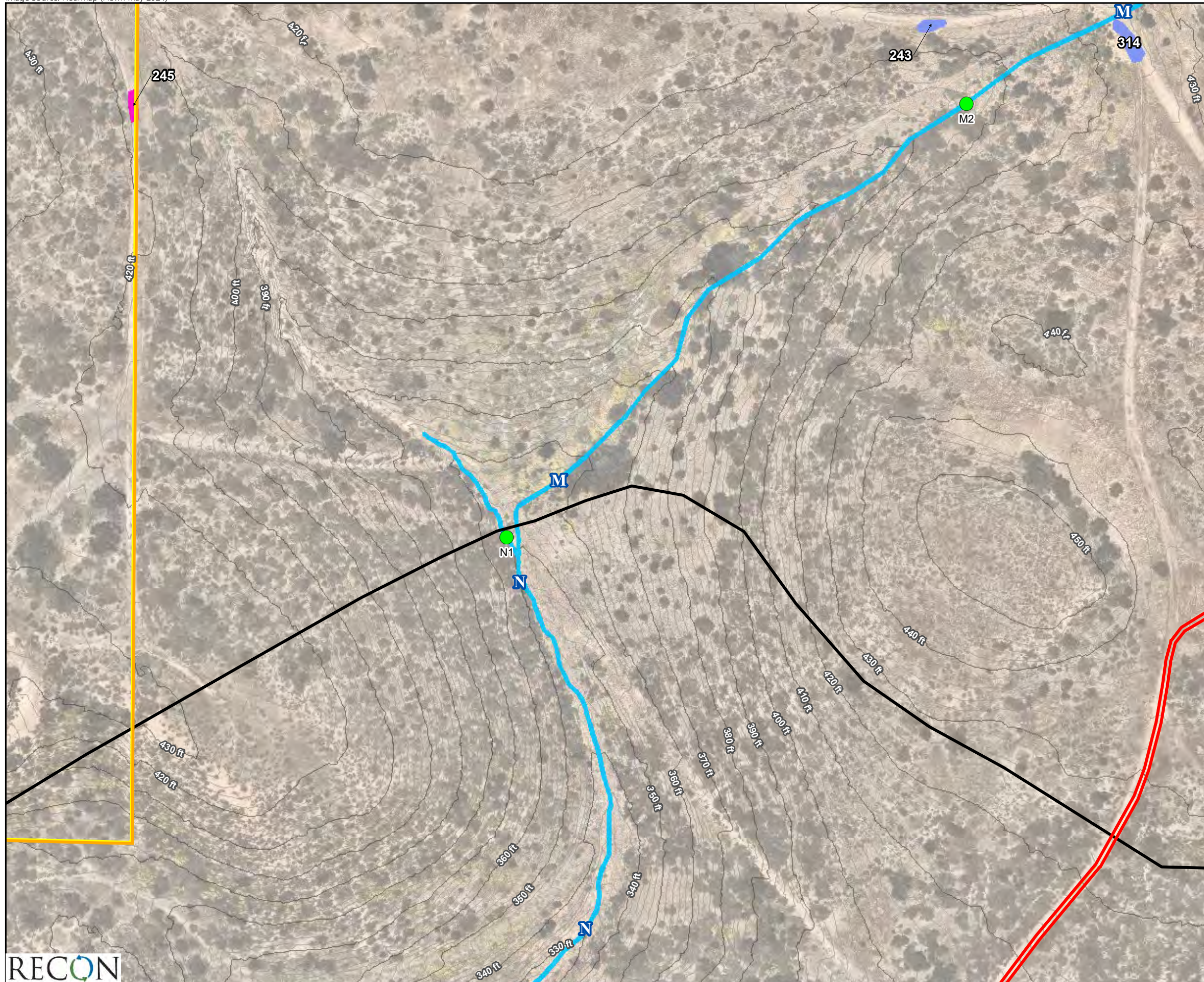


FIGURE 7.19  
Aquatic Resources Delineated  
within the Review Area





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- OHWM Data Sheet Point (ODP)

**Aquatic Resources**

- Non-wetland Waters
- Vernal Pool Wetland
- Disturbed Wetland

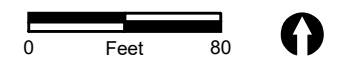
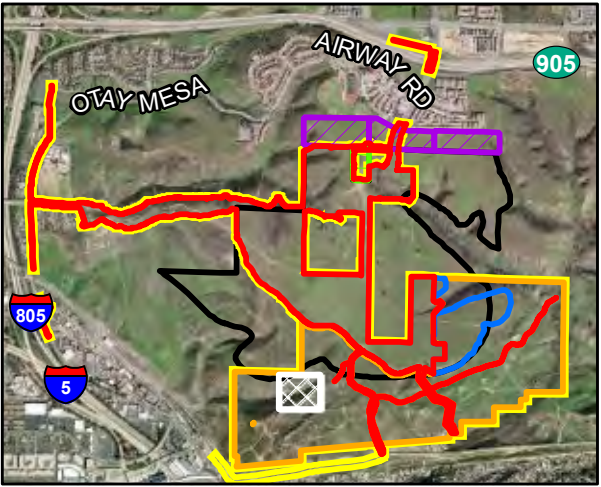


FIGURE 7.20  
Aquatic Resources Delineated  
within the Review Area





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- OHPM Data Sheet Point (ODP)

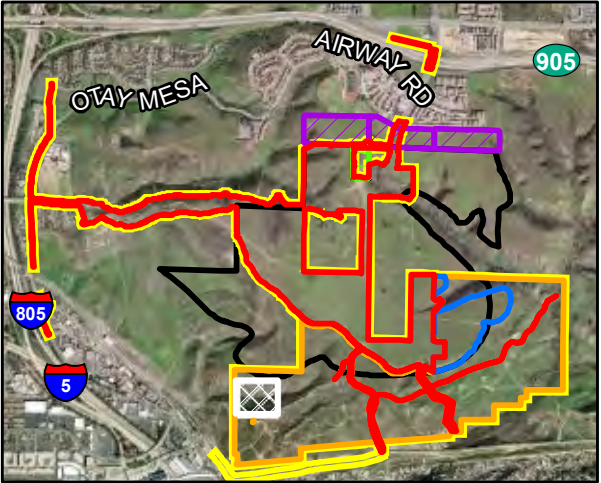
**Aquatic Resources**

- Non-wetland Waters
- Vernal Pool Basin
- Disturbed Wetland



FIGURE 7.21  
Aquatic Resources Delineated  
within the Review Area



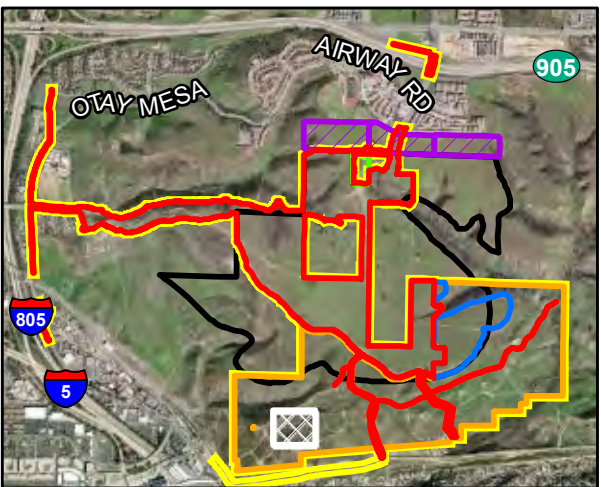
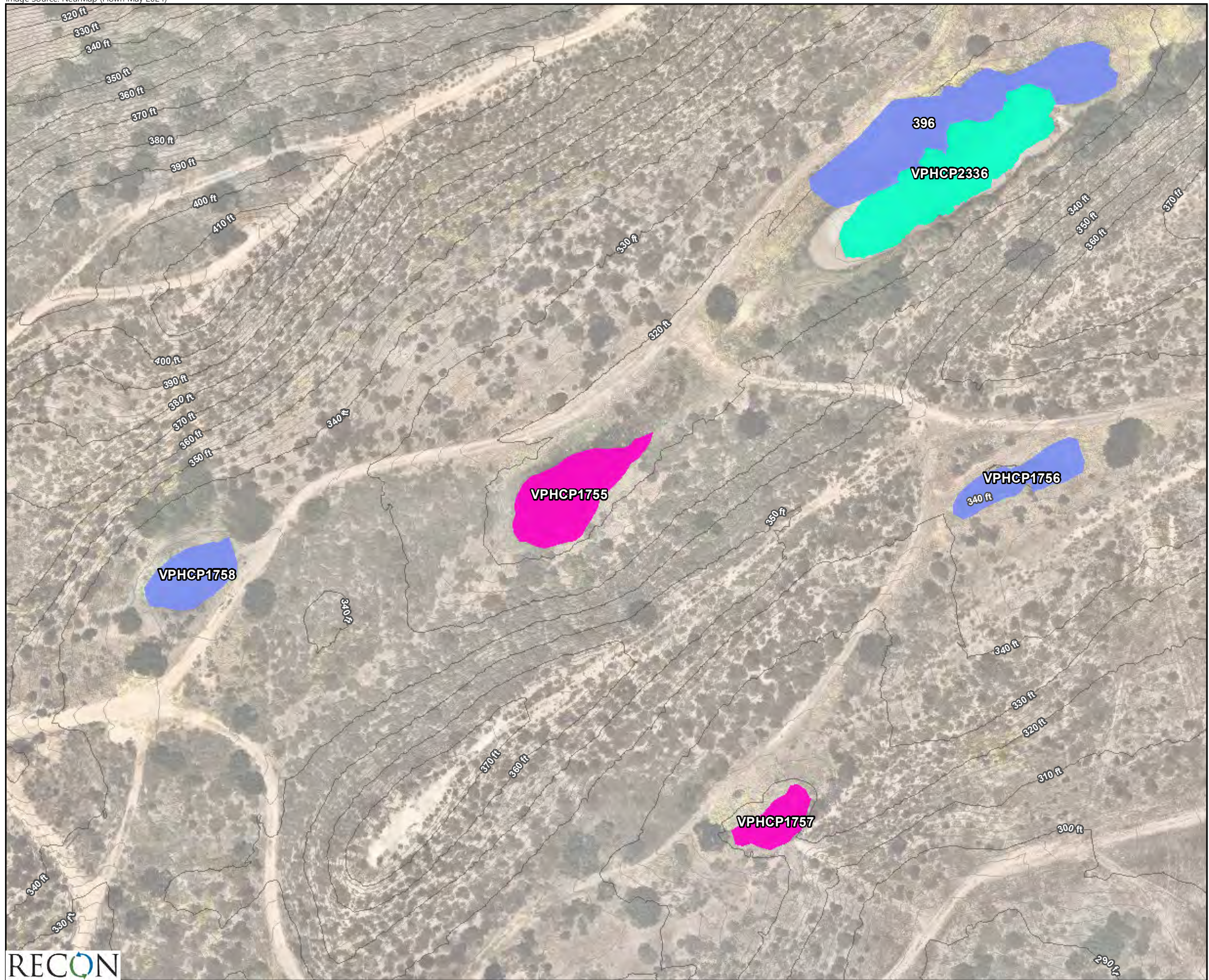


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Non-wetland Waters



FIGURE 7.22  
Aquatic Resources Delineated  
within the Review Area



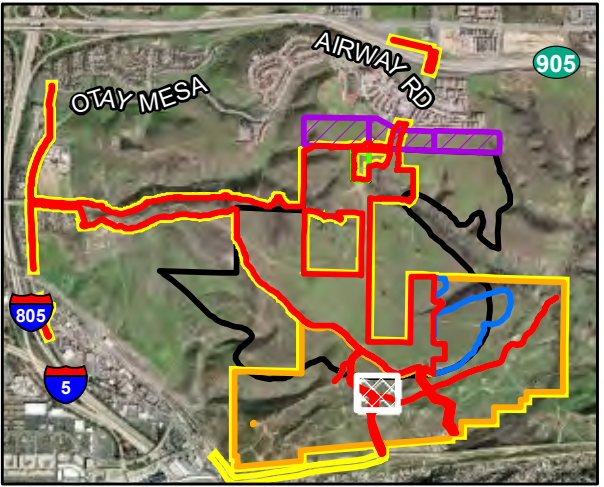
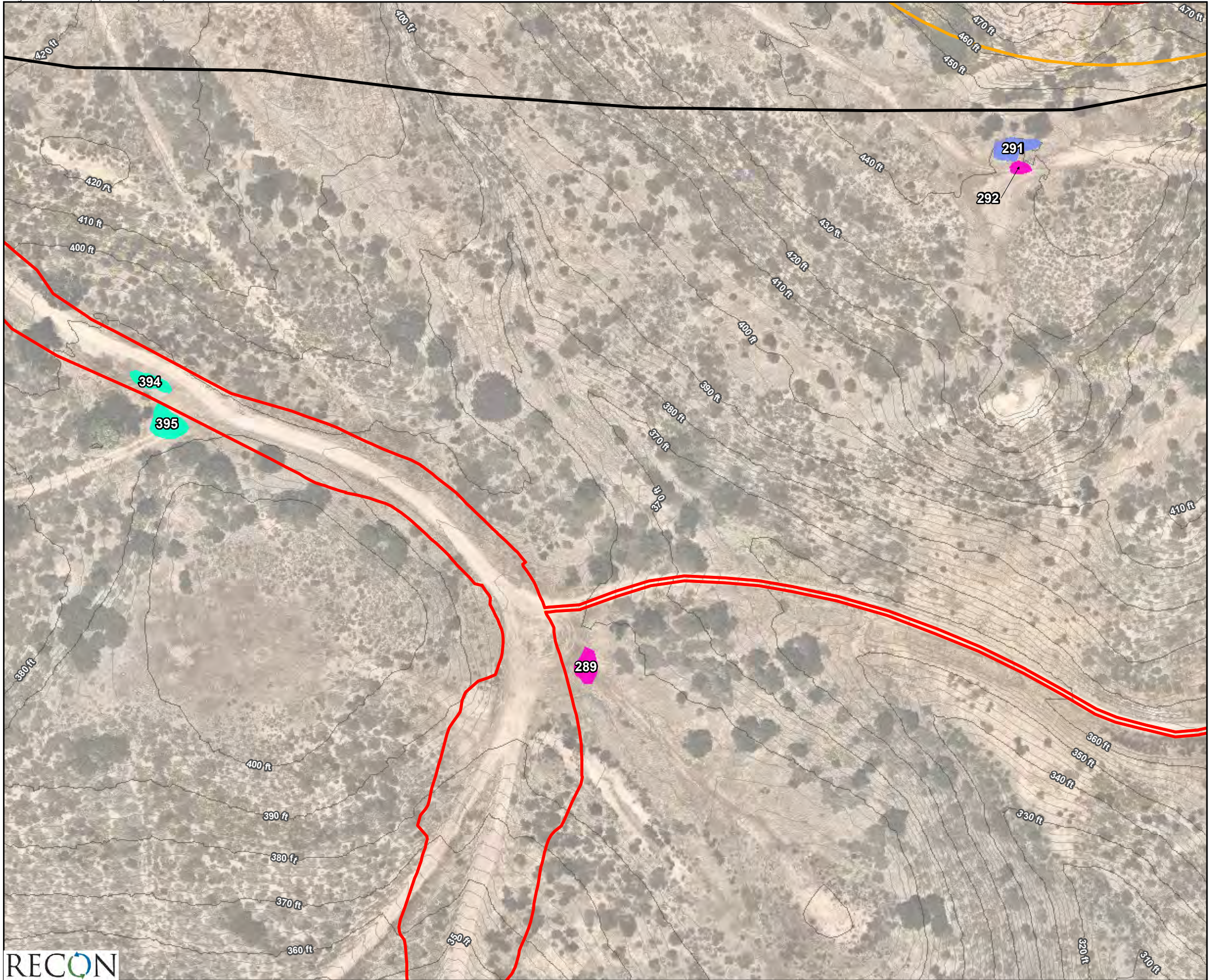


- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Aquatic Resources**
  - Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland



FIGURE 7.23  
Aquatic Resources Delineated  
within the Review Area





- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland



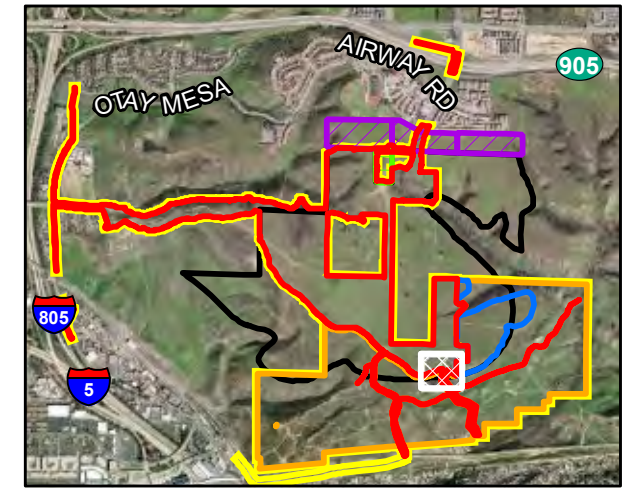
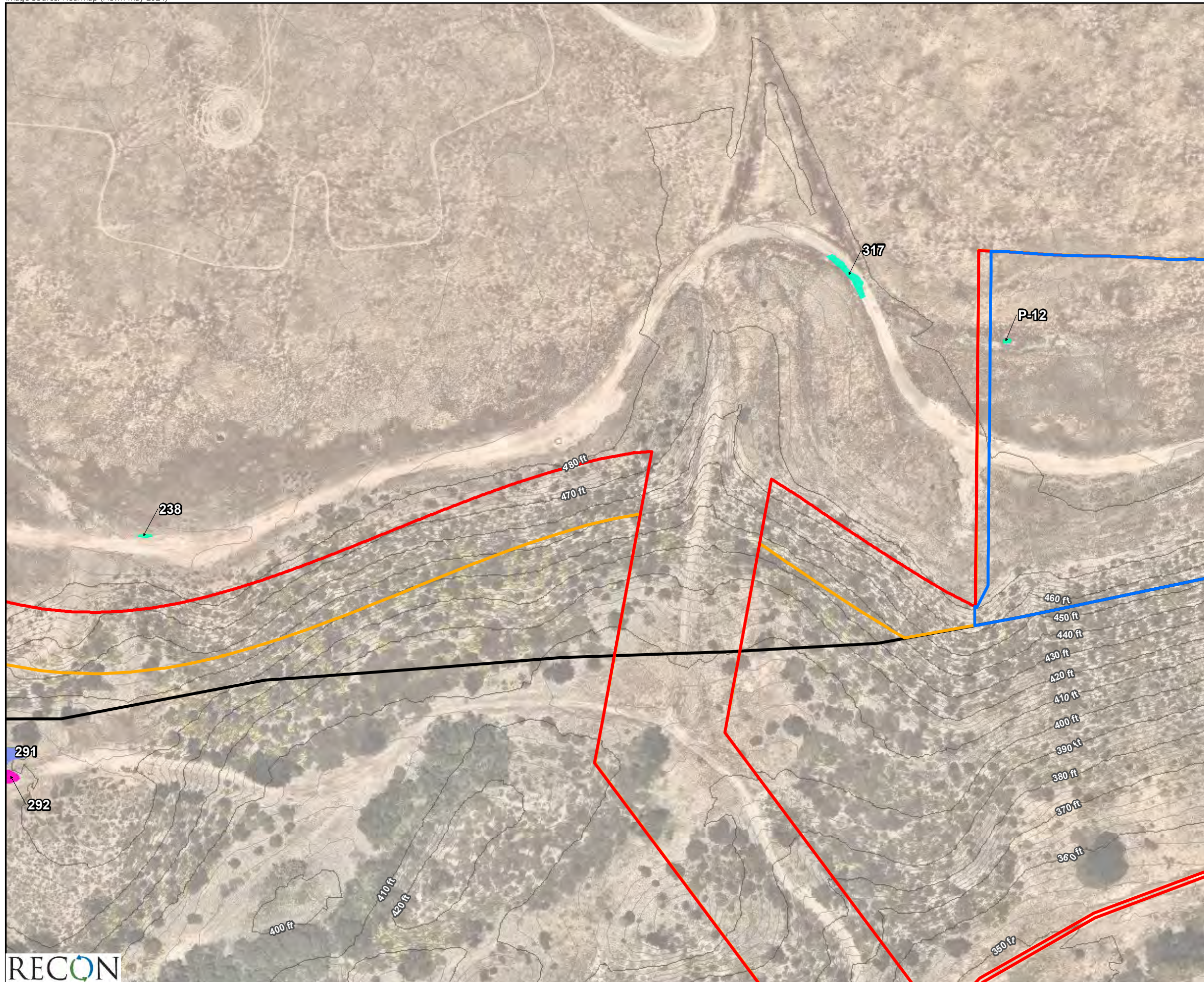
FIGURE 7.24  
Aquatic Resources Delineated  
within the Review Area





FIGURE 7.25  
Aquatic Resources Delineated  
within the Review Area



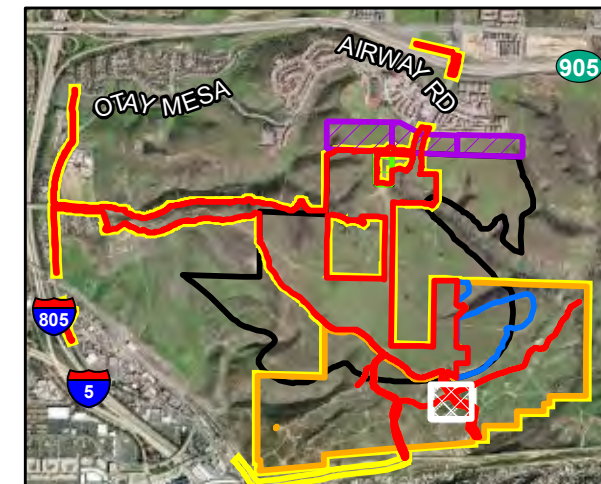
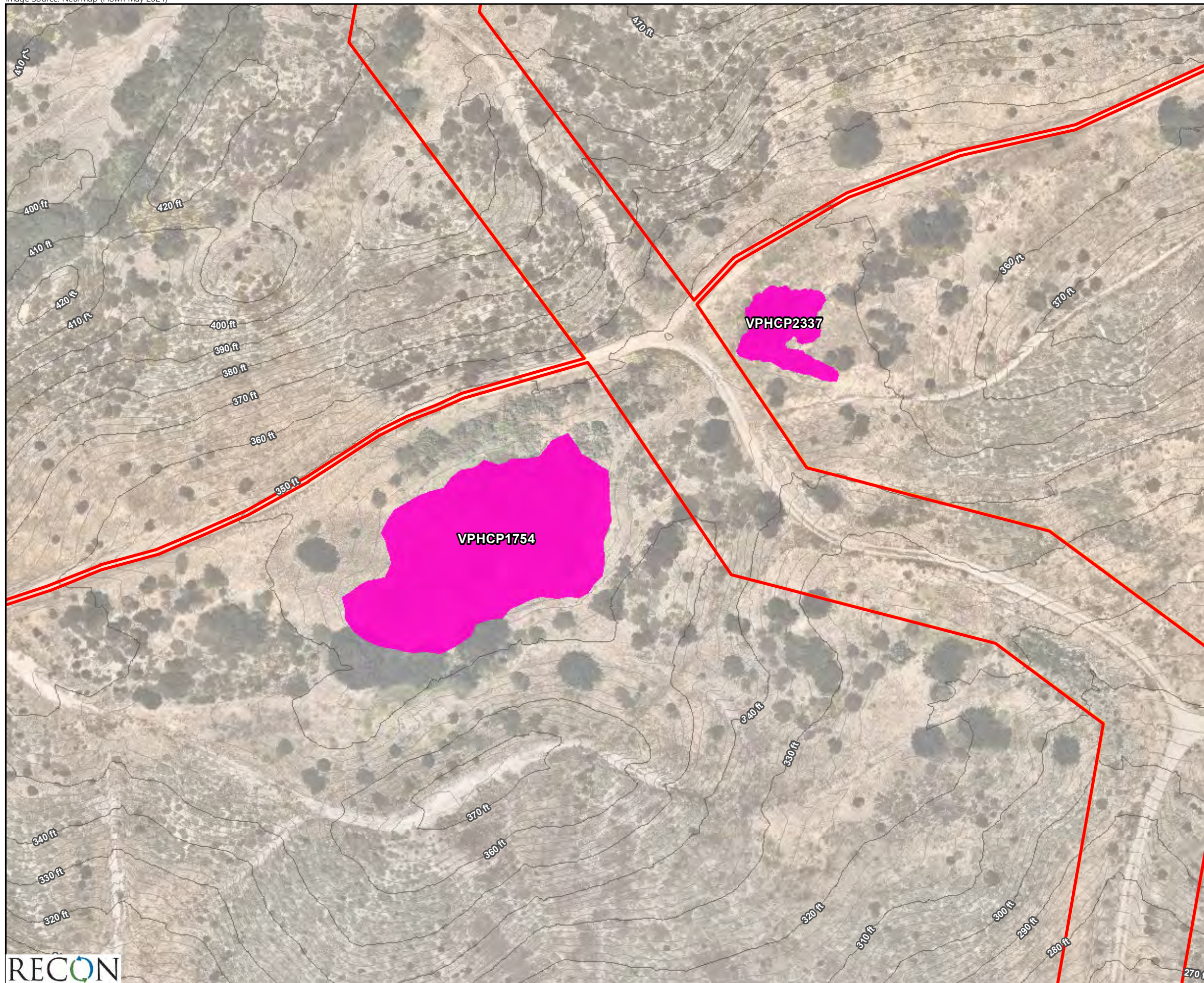


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland



FIGURE 7.26  
Aquatic Resources Delineated  
within the Review Area



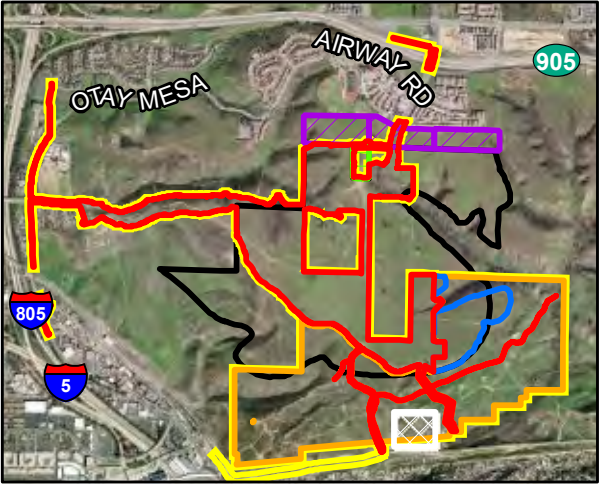


- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Aquatic Resources**
  - Vernal Pool Wetland



FIGURE 7.27  
Aquatic Resources Delineated  
within the Review Area



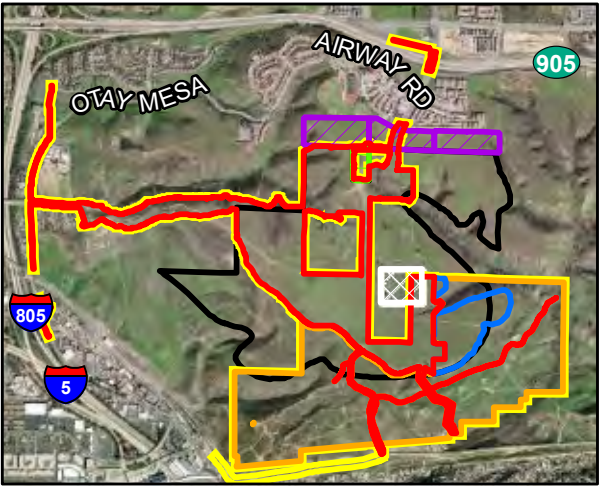


- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Aquatic Resources**
- Non-wetland Waters



FIGURE 7.28  
Aquatic Resources Delineated  
within the Review Area



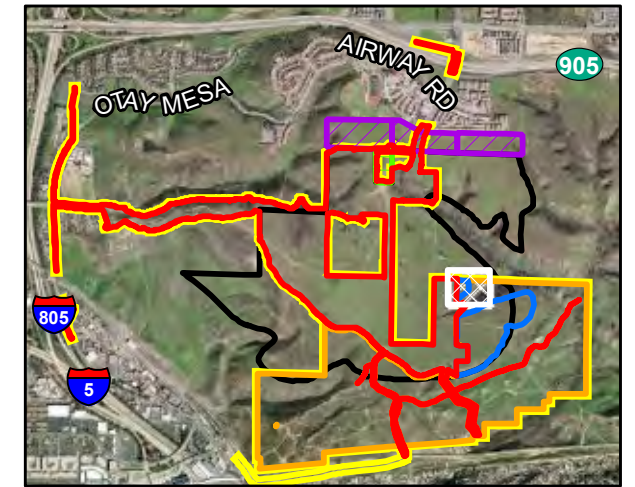
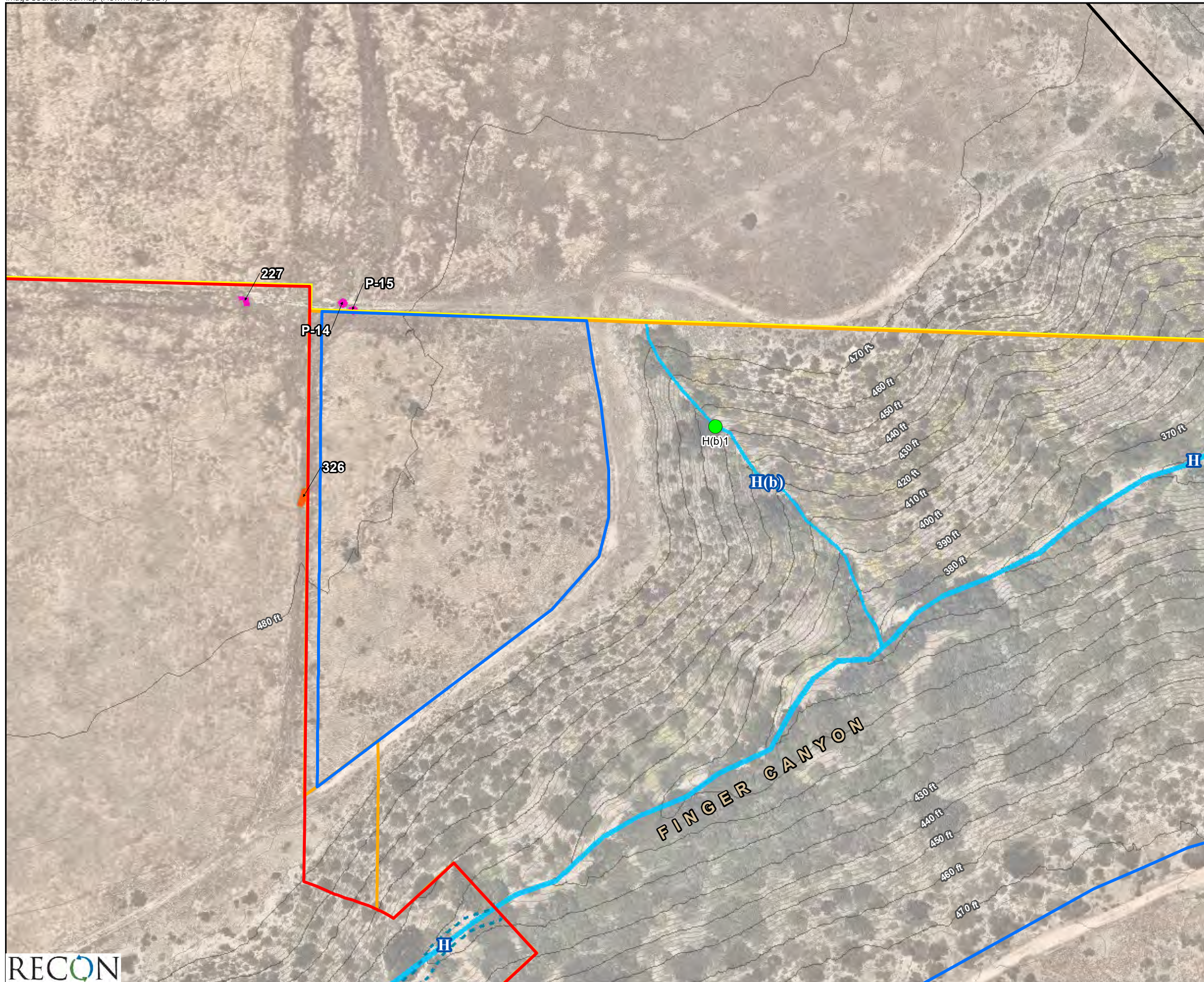


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland



FIGURE 7.29  
Aquatic Resources Delineated  
within the Review Area



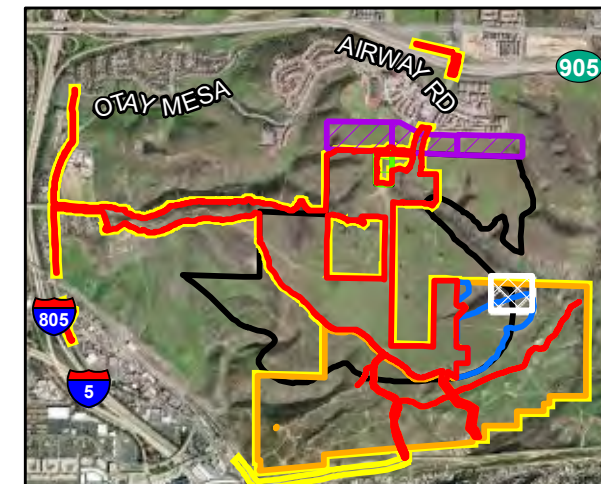
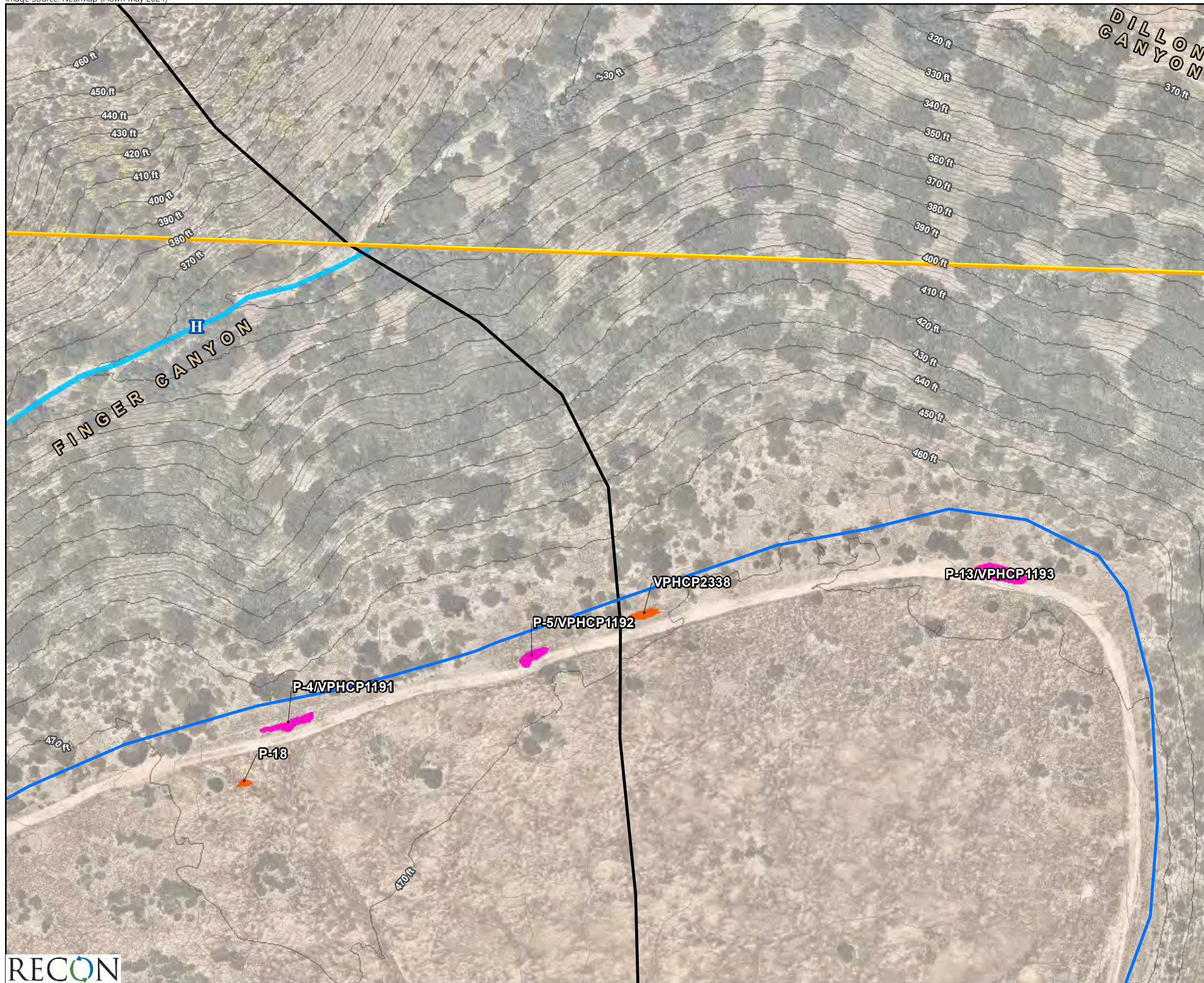


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - OHWM Data Sheet Point (ODP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Wetland
  - Seasonal Basin
  - Non-wetland Water 2-year Flow



FIGURE 7.30  
Aquatic Resources Delineated  
within the Review Area



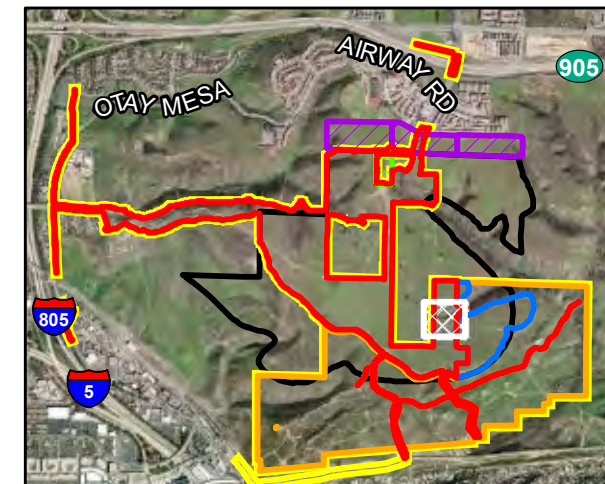
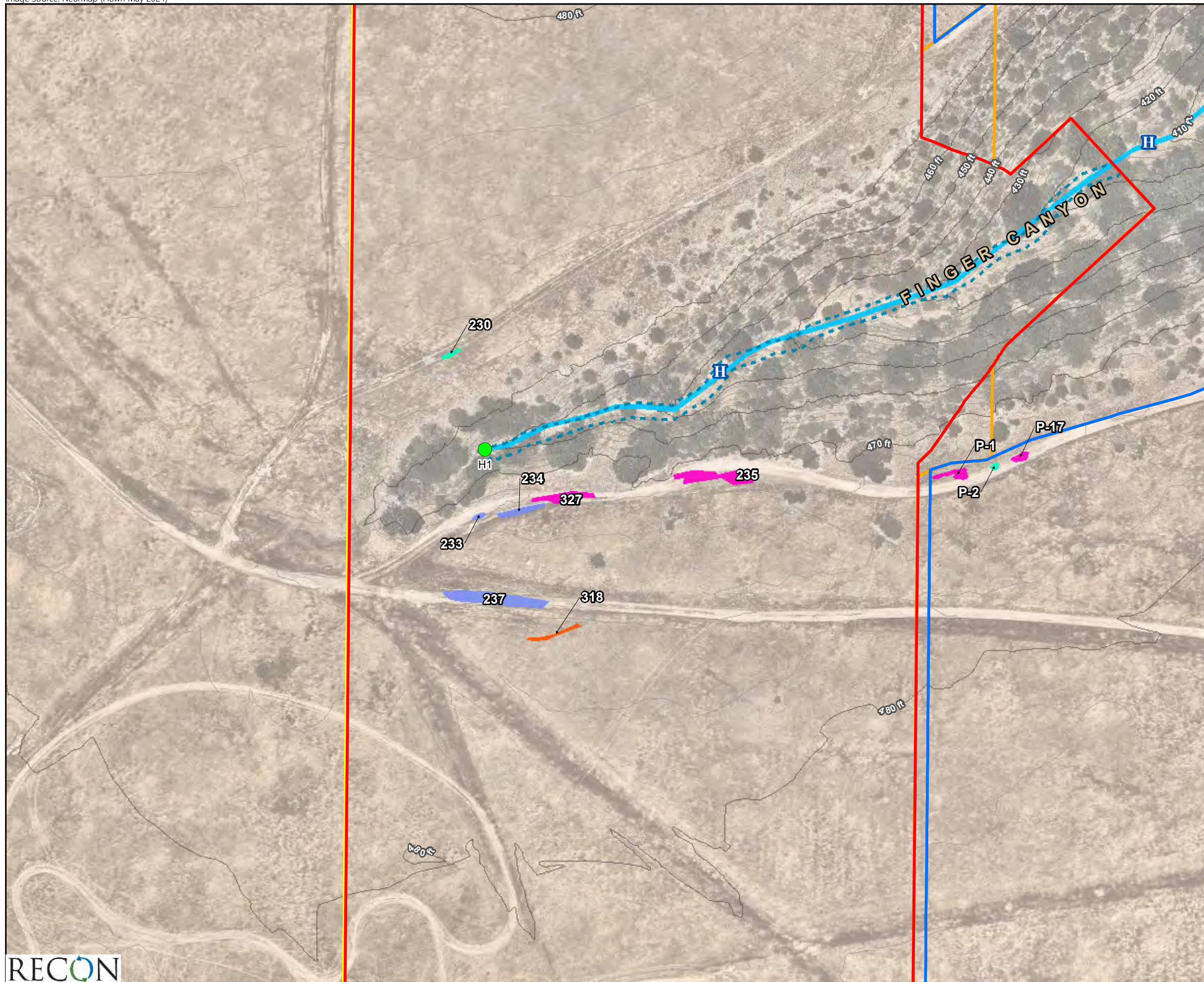


- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Aquatic Resources**
  - Non-wetland Waters
  - Vernal Pool Wetland
  - Seasonal Basin



FIGURE 7.31  
Aquatic Resources Delineated  
within the Review Area





- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
  - OHPM Data Sheet Point (ODP)
- Aquatic Resources**
- Non-wetland Waters
  - Vernal Pool Basin
  - Vernal Pool Wetland
  - Disturbed Wetland
  - Seasonal Basin
  - Non-wetland Water 2-year Flow

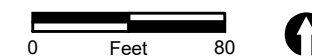
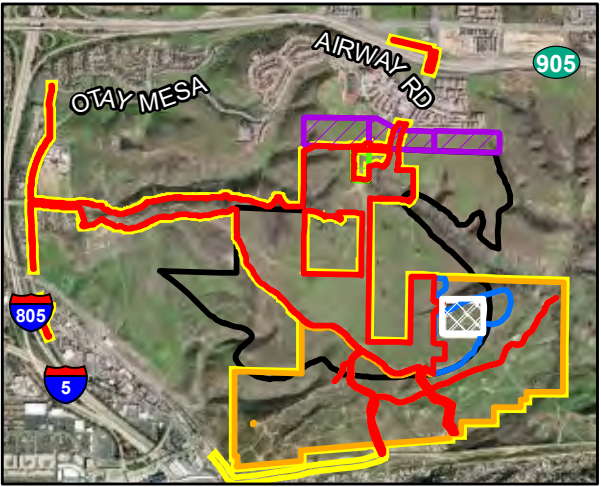
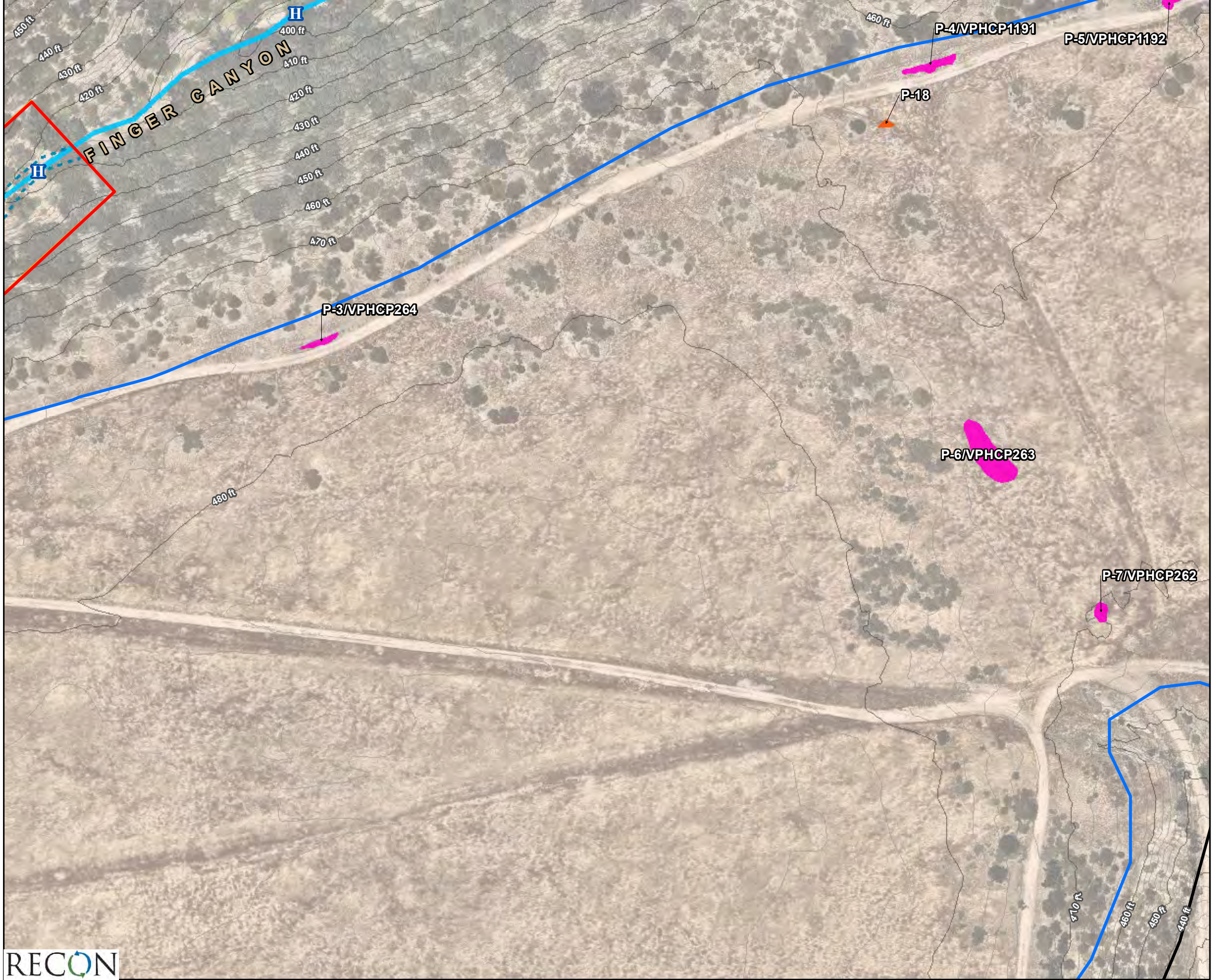


FIGURE 7.32  
Aquatic Resources Delineated  
within the Review Area



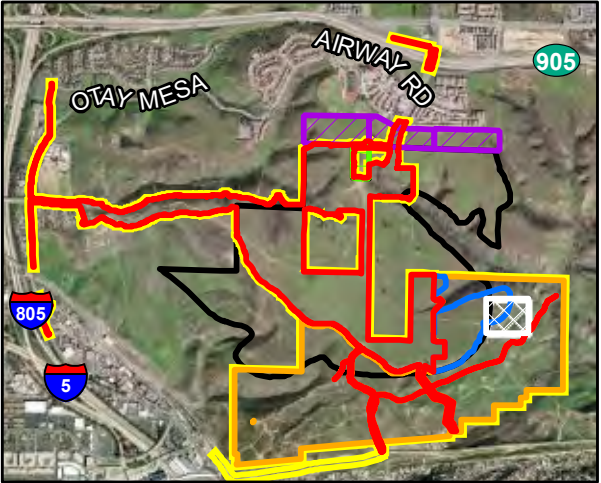
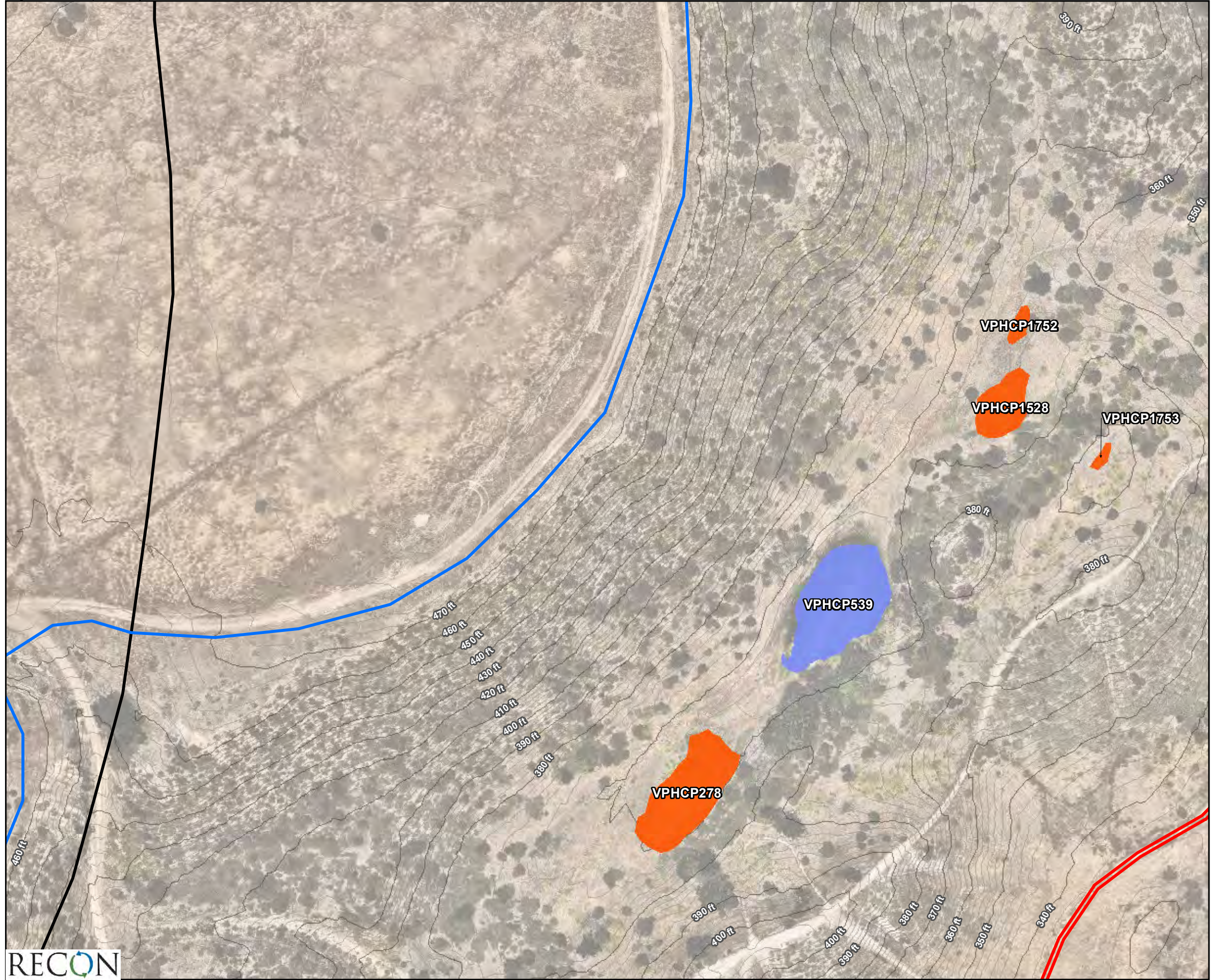


- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Aquatic Resources**
  - Non-wetland Waters
  - Vernal Pool Wetland
  - Seasonal Basin
  - Non-wetland Water 2-year Flow



FIGURE 7.33  
Aquatic Resources Delineated  
within the Review Area



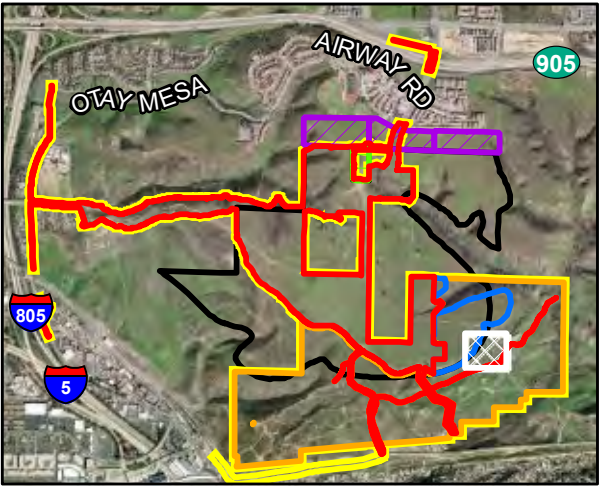
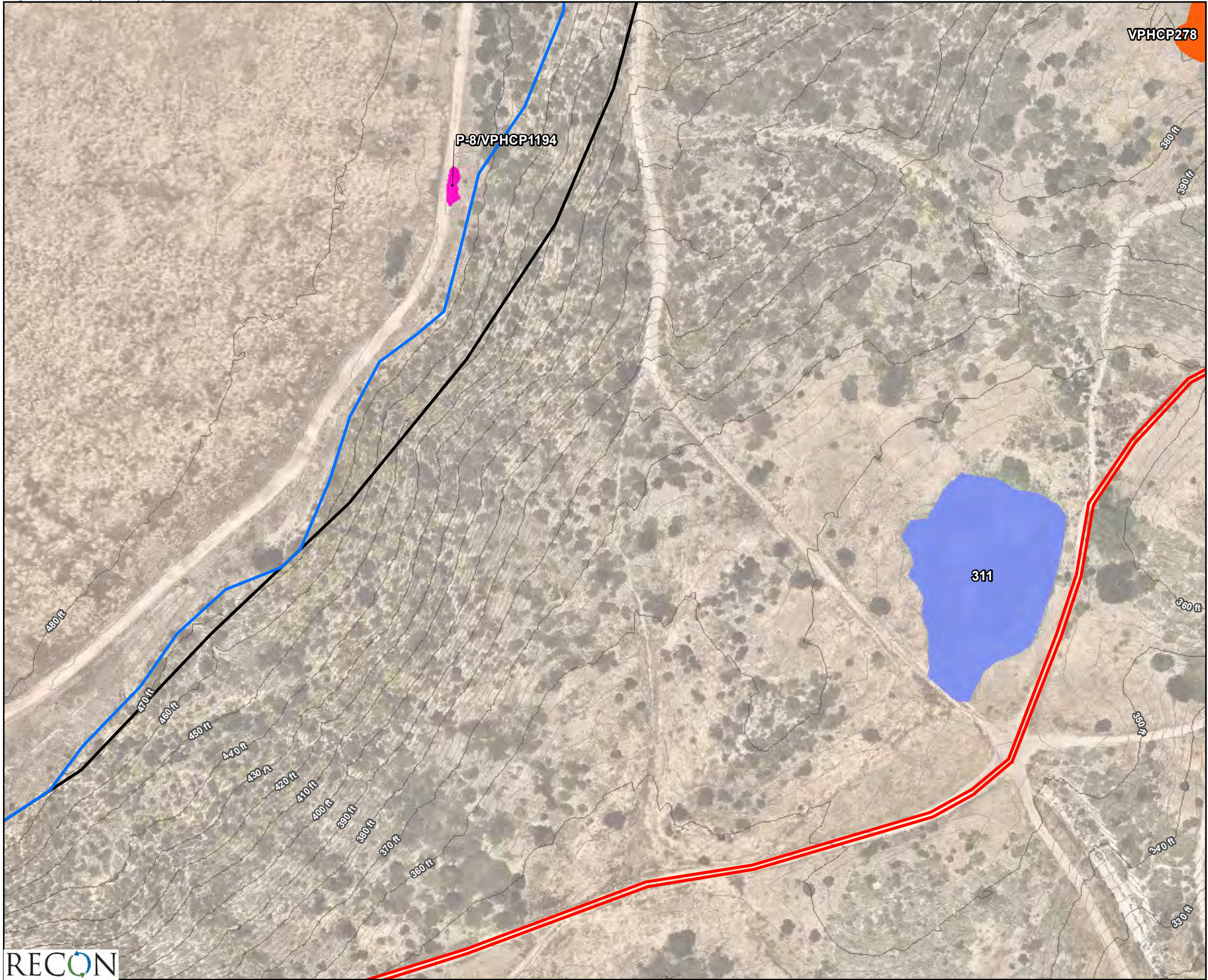


- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Aquatic Resources**
  - Disturbed Wetland
  - Seasonal Basin



FIGURE 7.34  
Aquatic Resources Delineated  
within the Review Area



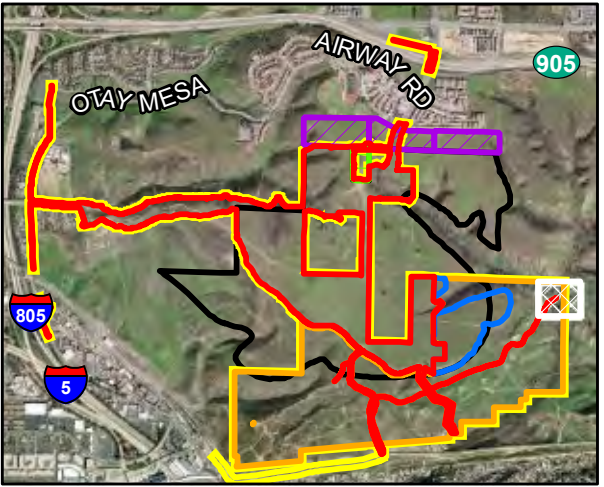
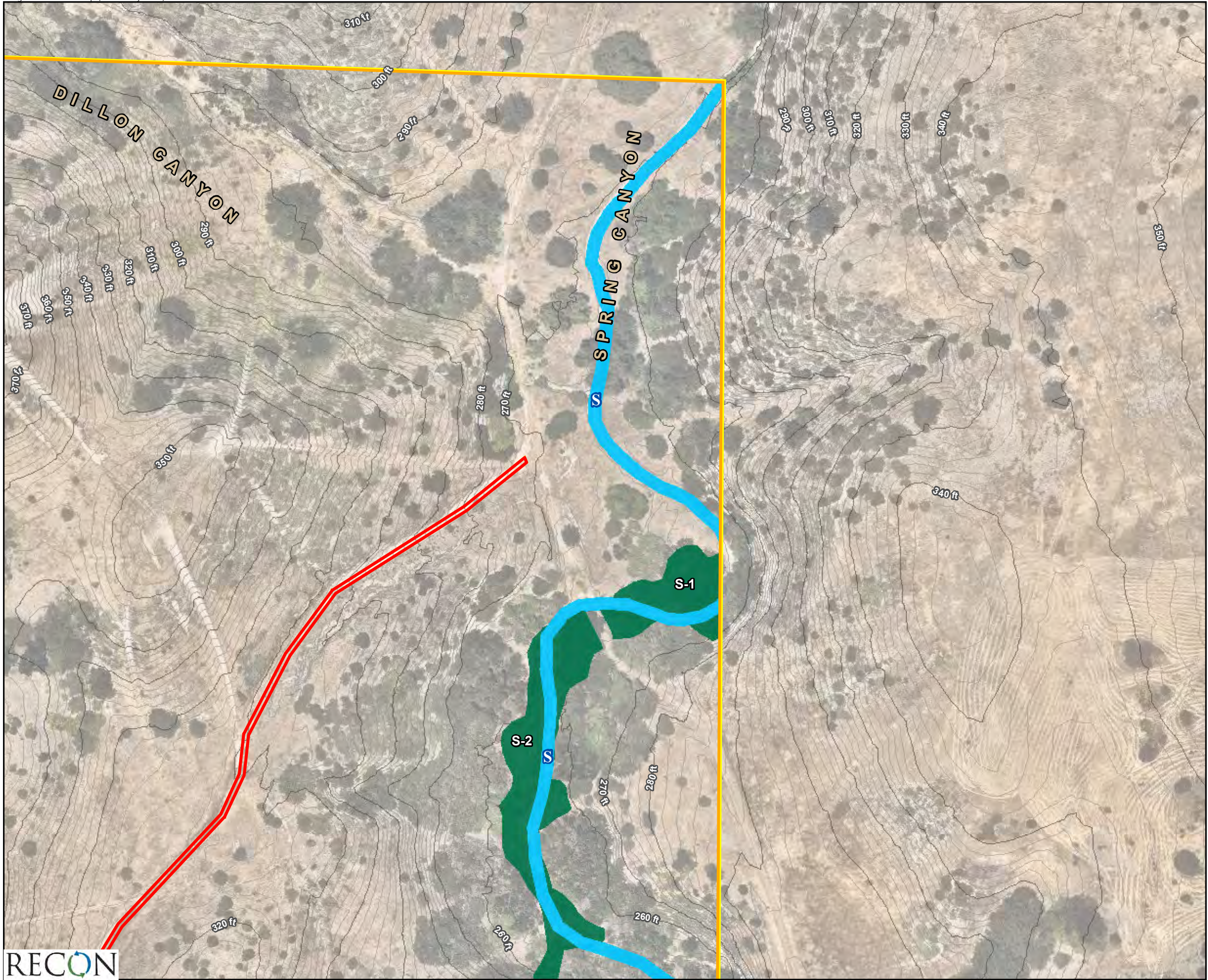


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Vernal Pool Wetland
  - Disturbed Wetland
  - Seasonal Basin



FIGURE 7.35  
Aquatic Resources Delineated  
within the Review Area



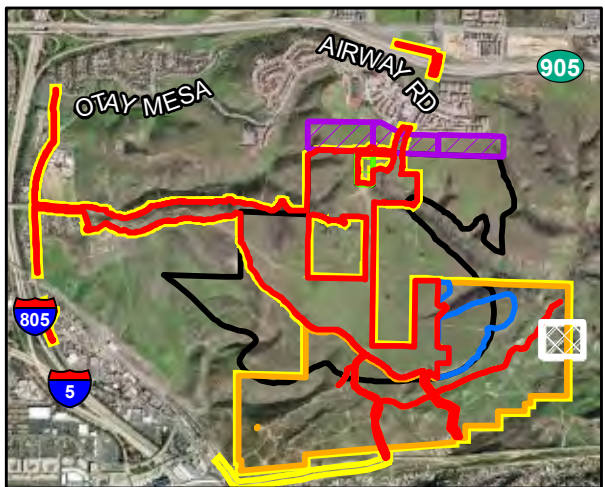
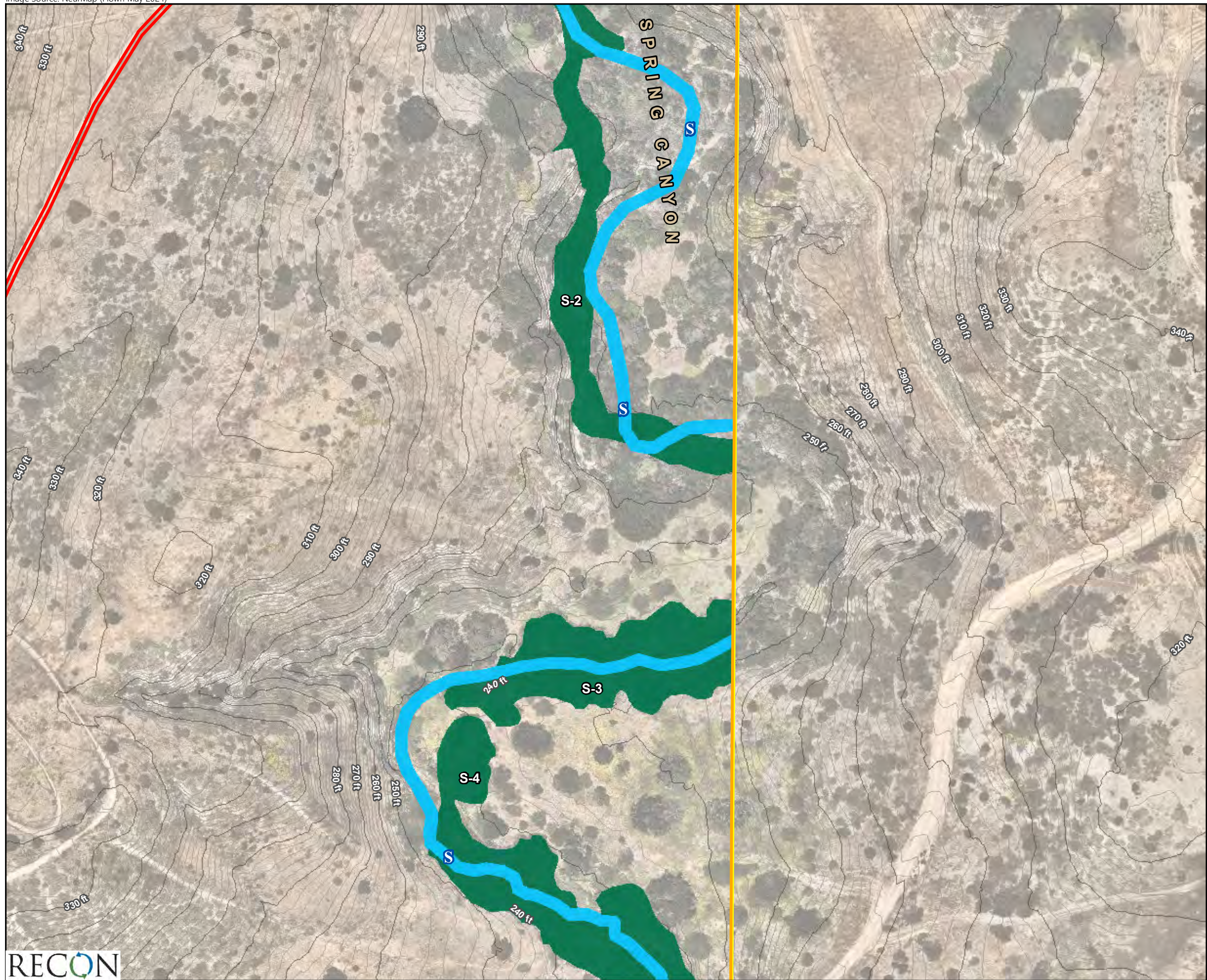


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Non-wetland Waters
  - Riparian



FIGURE 7.36  
Aquatic Resources Delineated  
within the Review Area



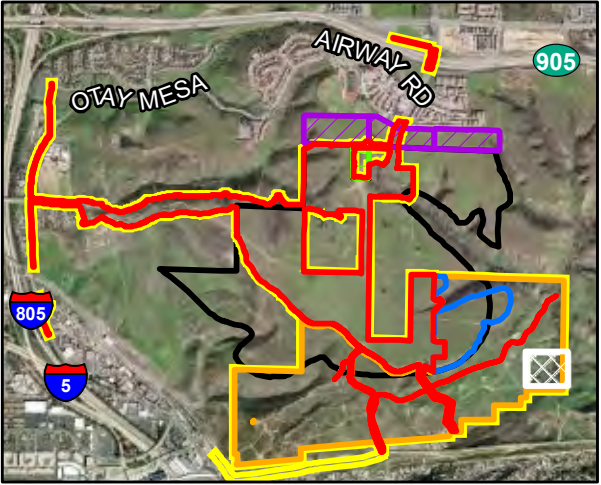
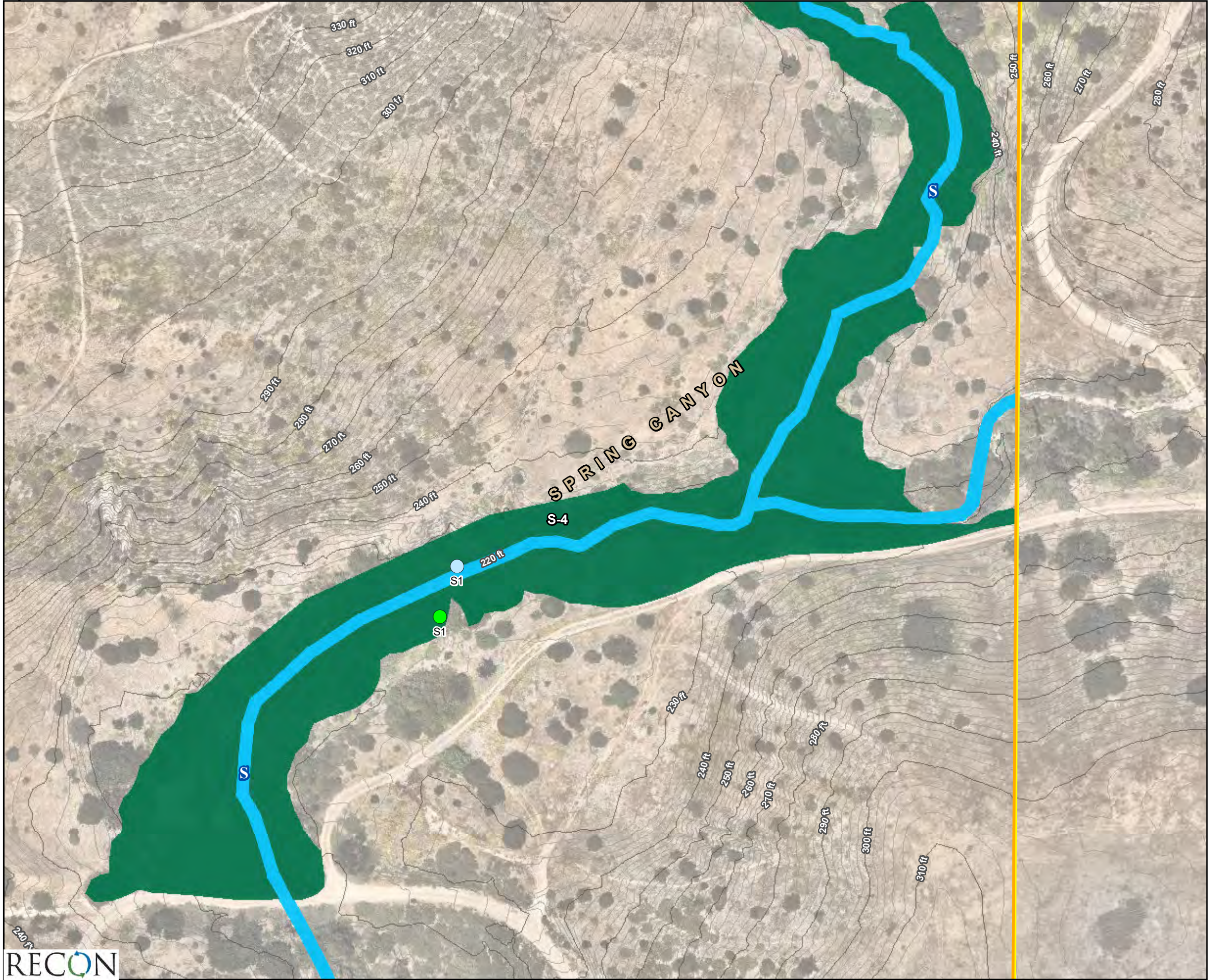


- Review Area
  - Project-level Analysis Area
  - Vernal Pool Restoration Areas
  - Land to be Conserved and Managed by the City
  - Specific Plan Boundary
  - Southwind Project Area
  - Candlelight Project Area
- Aquatic Resources**
- Non-wetland Waters
  - Riparian



FIGURE 7.37  
Aquatic Resources Delineated  
within the Review Area





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Wetland Data Form Point (WDP)
- OHWM Data Sheet Point (ODP)

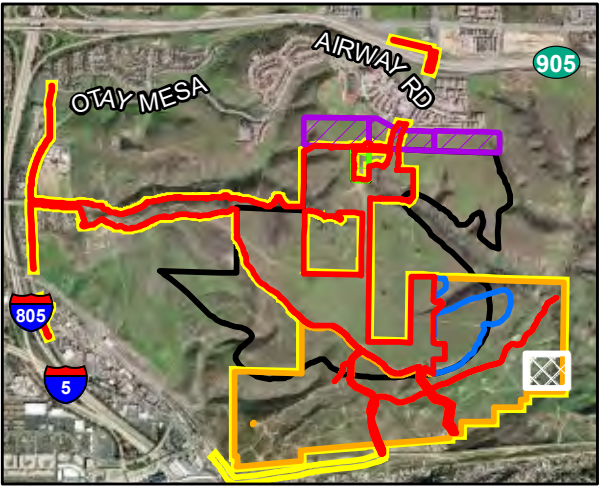
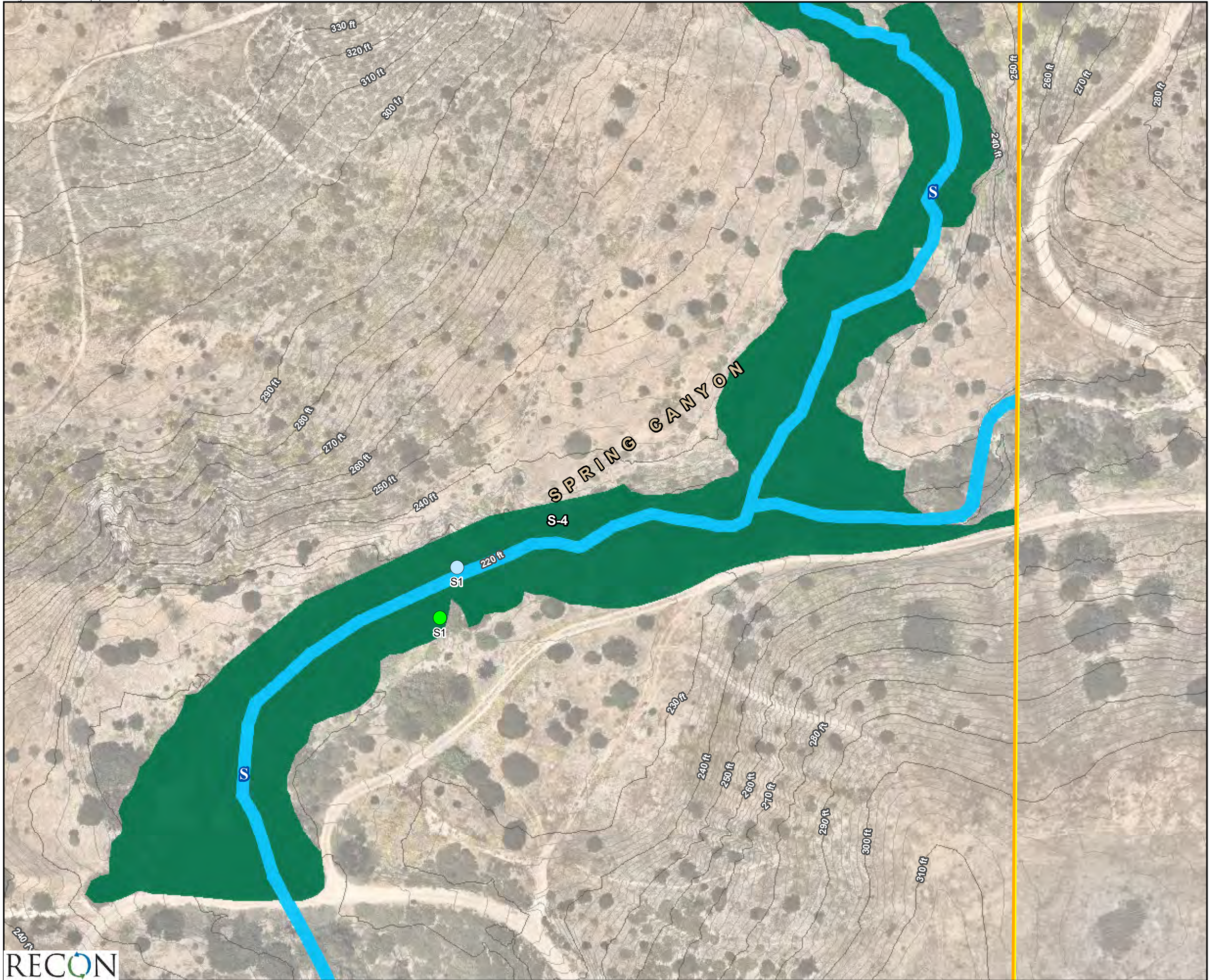
**Aquatic Resources**

- Non-wetland Waters
- Riparian



FIGURE 7.38  
Aquatic Resources Delineated  
within the Review Area





- Review Area
- Project-level Analysis Area
- Vernal Pool Restoration Areas
- Land to be Conserved and Managed by the City
- Specific Plan Boundary
- Southwind Project Area
- Candlelight Project Area
- Wetland Data Form Point (WDP)
- OHWM Data Sheet Point (ODP)

**Aquatic Resources**

- Non-wetland Waters
- Riparian



FIGURE 7.38  
Aquatic Resources Delineated  
within the Review Area



## ATTACHMENT 2

### Tables



Table 1 Assessor's Parcel Numbers within the Review Area						
6380706800	6450731300	6450810416	6450810446	6450810476	6450810613	6450810642
6380707100	6450731400	6450810417	6450810447	6450810477	6450810614	6450810643
6380707400	6450740200	6450810418	6450810448	6450810478	6450810615	6450810644
6450603200	6450740300	6450810419	6450810449	6450810479	6450810616	6450810645
6450603400	6450740400	6450810420	6450810450	6450810480	6450810617	6450810646
6450603500	6450740500	6450810421	6450810451	6450810482	6450810618	6450810647
6450610200	6450742200	6450810422	6450810452	6450810483	6450810619	6450810648
6450610400	6450742300	6450810423	6450810453	6450810484	6450810620	6450810649
6450610500	6450742400	6450810424	6450810454	6450810485	6450810621	6450810650
6450610600	6450742500	6450810425	6450810455	6450810486	6450810622	6450810651
6450610700	6450742600	6450810426	6450810456	6450810487	6450810623	6450810652
6450610800	6450750100	6450810427	6450810457	6450810488	6450810624	6450810653
6450610900	6450750200	6450810428	6450810458	6450810489	6450810624	6450810654
6450611000	6450750300	6450810429	6450810459	6450810490	6450810625	6450810655
6450710100	6450750400	6450810430	6450810460	6450810491	6450810626	6450811600
6450710200	6450810401	6450810431	6450810461	6450810492	6450810627	6670100600
6450710300	6450810402	6450810432	6450810462	6450810493	6450810628	6670101400
6450710400	6450810403	6450810433	6450810463	6450810494	6450810629	6670101500
6450710500	6450810404	6450810434	6450810464	6450810601	6450810630	6670101900
6450710600	6450810405	6450810435	6450810465	6450810602	6450810631	6670102000
6450710700	6450810406	6450810436	6450810466	6450810603	6450810632	6670102100
6450711400	6450810407	6450810437	6450810467	6450810604	6450810633	6670103000
6450720100	6450810408	6450810438	6450810468	6450810605	6450810634	6670103400
6450721400	6450810409	6450810439	6450810469	6450810606	6450810635	6670401300
6450730100	6450810410	6450810440	6450810470	6450810607	6450810636	
6450730800	6450810411	6450810441	6450810471	6450810608	6450810637	
6450730900	6450810412	6450810442	6450810472	6450810609	6450810638	
6450731000	6450810413	6450810443	6450810473	6450810610	6450810639	
6450731100	6450810414	6450810444	6450810474	6450810611	6450810640	
6450731200	6450810415	6450810445	6450810475	6450810612	6450810641	



Table 2 Vegetation Communities/Land Cover Types (acres)	
Community or Type (Holland [1986] Code as modified by Oberbauer [2008])	Area within Review Area (acres)
Maritime Succulent Scrub	175.50
Disturbed Maritime Succulent Scrub	61.72
Valley Needlegrass Grassland	0.12
Diegan Coastal Sage Scrub	77.08
Disturbed Coastal Sage Scrub	14.21
Non-native Grassland	163.63
Non-vegetated Channel	1.74
Mule Fat Scrub	3.34
Southern Willow Scrub	0.61
Tamarisk Scrub	0.56
Disturbed Riparian Scrub	0.12
Disturbed Wetland	1.21
San Diego Mesa Claypan Vernal Pool	1.96
Eucalyptus Woodland	0.13
Disturbed Land	39.45
Urban/Developed	7.68
<b>TOTAL</b>	<b>549.07</b>



**Table 3**  
**Survey Dates, Times, and Weather Conditions**

Date	Survey Type	Surveyors
3/4/2018	Wetland Delineation – ponding areas	B. Procsal; J. Sundberg
3/6/2018	Wetland Delineation – ponding areas	B. Procsal; J. Sundberg
3/15/2018	Wetland Delineation – drainages	B. Procsal; J. Sundberg
3/19/2018	Wetland Delineation – ponding areas	B. Procsal; J. Sundberg
3/26/2018	Wetland Delineation – ponding areas	B. Procsal; J. Sundberg
3/29/2018	Wetland Delineation – ponding areas	B. Procsal; J. Sundberg
4/4/2018	Wetland Delineation – ponding areas	B. Procsal; J. Sundberg
4/6/2018	Wetland Delineation – ponding areas	B. Procsal; J. Sundberg
3/29/2019	Wetland Delineation – ponding areas	B. Procsal; J. McBee
4/11/2019	Wetland Delineation – ponding areas	B. Procsal; J. Sundberg
4/23/2019	Wetland Delineation – ponding areas	B. Procsal; J. McBee
12/9/2019	Wetland Delineation – drainages	B. Procsal; J. Sundberg
12/13/2019	Wetland Delineation – drainages	B. Procsal; J. Sundberg
1/14/2020	Wetland Delineation – drainages	B. Procsal; G. Scheid
2/13/2020	Wetland Delineation – drainages	J. Sundberg
2/27/2020	Wetland Delineation – ponding areas	B. Procsal; R. Atik
3/3/2020	Wetland Delineation – ponding areas	B. Procsal; J. Sundberg; A. Smisek; K. Chappaz
3/26/2020	Wetland Delineation – ponding areas	J. Sundberg; R. Atik
4/14/2020	Wetland Delineation – ponding areas & drainages	B. Procsal; A. Leavitt
6/24/2020	Wetland Delineation – ponding areas	B. Procsal; G. Scheid
7/13/2020	Wetland Delineation – ponding areas	G. Scheid
3/17/2021	Wetland Delineation – ponding areas & drainages	B. Procsal; G. Scheid
4/12/2021	Wetland Delineation – ponding areas	B. Procsal; A. Smisek
4/19/2021	Wetland Delineation – ponding areas	B. Procsal; J. Mercado
8/18/2021	Stream Duration Assessment Method forms	B. Procsal; G. Scheid
8/20/2021	Stream Duration Assessment Method forms	B. Procsal; G. Scheid
2/9/2022	Wetland Delineation – drainages and vernal pools	B. Procsal; A. Smisek
5/5/2023	Wetland Delineation – soil pits and paired sample points for ponding areas	A. Smisek; C. Polevy; C. Thomson; J. Sundberg



Table 3 Survey Dates, Times, and Weather Conditions		
Date	Survey Type	Surveyors
5/8/2023	Wetland Delineation – soil pits and paired sample points for ponding areas	A. Smisek; C. Polevy; C. Thomson; J. Sundberg
6/16/2023	Wetland Delineation – soil pits and paired sample points for ponding areas	A. Smisek; C. Polevy; C. Thomson; J. Sundberg
6/20/2023	Wetland Delineation – soil pits and paired sample points for ponding areas	A. Smisek; C. Polevy; C. Thomson; J. Sundberg
6/21/2023	Wetland Delineation – soil pits and paired sample points for ponding areas	A. Smisek; C. Polevy; C. Thomson; J. Sundberg
6/27/2023	Wetland Delineation – soil pits and paired sample points for ponding areas	A. Smisek; C. Polevy; C. Thomson; J. Sundberg
7/5/2023	Wetland Delineation – soil pits and paired sample points for ponding areas	A. Smisek; C. Polevy; C. Thomson; J. Sundberg
8/8/2023	Wetland Delineation – paired sample points for ponding areas	A. Smisek; D. Gadia
8/17/2023	Wetland Delineation – paired sample points for ponding areas	A. Smisek; D. Gadia
1/17/2024	Wetland Delineation – new project areas and verification	A. Smisek; J. Sunberg



**Table 4**  
**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
A	R	Riverine	700	704	NRPW	32.56101	-117.0223	Ephemeral Drainage	<i>Parietaria hespera</i> , <i>Claytonia perfoliata</i> , <i>Bromus diandrus</i> , <i>Amsinckia</i> sp.
B	R	Riverine	1,963	1,406	NRPW	32.55877	-117.02245	Ephemeral Drainage	<i>Rhus integrifolia</i> , <i>Hirschfeldia incana</i> , <i>Bromus madritensis rubens</i>
B(b)	R	Riverine	1,615	698	NRPW	32.55995	-117.02047	Ephemeral Drainage	<i>Rhus integrifolia</i> , <i>Bromus madritensis rubens</i> , <i>Artemisia californica</i>
C	R	Riverine	1,050	470	NRPW	32.56156	-117.01735	Ephemeral Drainage	unvegetated
D	R	Riverine	498	394	NRPW	32.55792	-117.02454	Ephemeral Drainage	<i>Artemisia californica</i> , <i>Bromus madritensis rubens</i> , <i>Hirschfeldia incana</i>
E	R	Riverine	1,710	701	NRPW	32.55695	-117.02386	Ephemeral Drainage	<i>Artemisia californica</i> , <i>Rhus integrifolia</i> , <i>Peritoma arborea</i>
F	R	Riverine	430	286	NRPW	32.55945	-117.01807	Ephemeral Drainage	<i>Hordeum murinum</i>
G	R	Riverine	7,004	1,139	NRPW	32.55935	-117.01771	Ephemeral Drainage	<i>Baccharis salicifolia</i>
G-1	RP	Riverine	260	39	Riparian	32.55947	-117.01785	Ephemeral Drainage	<i>Baccharis salicifolia</i>
G-2	RP	Riverine	159	28	Riparian	32.55934	-117.01776	Ephemeral Drainage	<i>Salix lasiolepis</i> , <i>Baccharis salicifolia</i>
G-3	RP	Riverine	90	26	Riparian	32.55917	-117.01745	Ephemeral Drainage	<i>Salix lasiolepis</i> , <i>Baccharis salicifolia</i>
G(b)	R	Riverine	131	87	NRPW	32.55947	-117.01804	Ephemeral Drainage	<i>Salix lasiolepis</i> , <i>Baccharis salicifolia</i> , <i>Baccharis sarothroides</i>
H	R	Riverine	5,199	1,483	NRPW	32.55224	-117.01529	Ephemeral Drainage	<i>Bromus diandrus</i>
H(b)	R	Riverine	673	337	NRPW	32.55397	-117.01307	Ephemeral Drainage	<i>Bromus diandrus</i>
I	R	Riverine	731	86	NRPW	32.55168	-117.02439	Ephemeral Drainage	unvegetated
K	R	Riverine	653	333	NRPW	32.55452	-117.02608	Ephemeral Drainage	<i>Bromus rubens</i>



**Table 4**  
**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
K(b)	R	Riverine	79	40	NRPW	32.55456	-117.02614	Ephemeral Drainage	<i>Bromus rubens</i>
M	R	Riverine	3,337	970	NRPW	32.55126	-117.01965	Ephemeral Drainage	<i>Bromus rubens</i>
N	R	Riverine	10,017	2,046	NRPW	32.54955	-117.02182	Ephemeral Drainage	unvegetated
O	R	Riverine	2,179	720	NRPW	32.55788	-117.03729	Ephemeral Drainage	<i>Baccharis salicifolia</i>
O-1	RP	Riverine	2,482	70	Riparian	32.55785	-117.03722	Ephemeral Drainage	<i>Baccharis salicifolia</i>
O-2	RP	Riverine	2,407	60	Riparian	32.55777	-117.03693	Ephemeral Drainage	<i>Baccharis salicifolia</i>
O-3	RP	Riverine	10,524	253	Riparian	32.55772	-117.0364	Ephemeral Drainage	<i>Baccharis salicifolia</i>
P	R	Riverine	125	105	NRPW	32.55837	-117.02917	Ephemeral Drainage	unvegetated
Q	R	Riverine	149	125	NRPW	32.55883	-117.02801	Ephemeral Drainage	unvegetated
S	R	Riverine	33,962	3,475	NRPW	32.54894	-117.00706	Ephemeral Drainage	<i>Baccharis salicifolia</i>
S-1	RP	Riverine	6,481	117	Riparian	32.55284	-117.0057	Ephemeral Drainage	<i>Tamarix rammosissima, Baccharis salicifolia</i>
S-2	RP	Riverine	100,999	696	Riparian	32.55192	-117.00595	Ephemeral Drainage	<i>Tamarix rammosissima, Baccharis salicifolia</i>
S-3	RP	Riverine	11,853	242	Riparian	32.55072	-117.0059	Ephemeral Drainage	<i>Tamarix rammosissima, Baccharis salicifolia</i>
S-4	RP	Riverine	97,609	1,333	Riparian	32.54914	-117.00669	Ephemeral Drainage	<i>Tamarix rammosissima, Baccharis salicifolia</i>
T	R	Riverine	1,452	725	NRPW	32.54556	-117.01527	Ephemeral Drainage	unvegetated
2	P	Depress	165	40	Isolate	32.55942	-117.02221	Depression	<i>Psilocarphus brevissimus, Deinandra fasciculata, Crassula connata</i>
4	P	Depress	41	11	Isolate	32.55936	-117.01909	Depression	<i>Plagiobothrys acanthocarpus, Hordeum murinum</i>



Table 4  
List of Aquatic Resources

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
5	P	Depress	34	8	Isolate	32.55943	-117.01912	Depression	<i>Plagiobothrys acanthocarpus, Psilocarphus brevissimus, Hordeum murinum</i>
6	P	Depress	67	8	Isolate	32.55948	-117.01914	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Hordeum murinum</i>
7	P	Depress	21	6	Isolate	32.55947	-117.01903	Depression	<i>Psilocarphus brevissimus, Spergularia bocconi, Hordeum murinum</i>
9	P	Depress	30	9	Isolate	32.55922	-117.01905	Depression	<i>Hordeum murinum, Spergularia bocconi, Plagiobothrys acanthocarpus</i>
10	P	Depress	94	16	Isolate	32.55905	-117.01913	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Bromus hordeaceus</i>
11	P	Depress	39	11	Isolate	32.55897	-117.01904	Depression	<i>Hordeum murinum, Psilocarphus brevissimus, Plagiobothrys acanthocarpus</i>
12	P	Depress	105	18	Isolate	32.55893	-117.01909	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Hordeum marinum</i>
13	P	Depress	26	8	Isolate	32.55893	-117.01911	Depression	<i>Psilocarphus brevissimus, Hordeum murinum, Plagiobothrys acanthocarpus</i>
14	P	Depress	38	8	Isolate	32.55893	-117.01914	Depression	<i>Psilocarphus brevissimus, Plantago elongata, Spergularia bocconi</i>
15	P	Depress	269	31	Isolate	32.55887	-117.01913	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Matricaria discoidea</i>
16	P	Depress	114	22	Isolate	32.55886	-117.01907	Depression	<i>Psilocarphus brevissimus, Matricaria discoidea, Plantago elongata</i>
17	P	Depress	120	24	Isolate	32.55891	-117.01916	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Matricaria discoidea</i>
18	P	Depress	32	8	Isolate	32.55891	-117.0192	Depression	<i>Hordeum murinum, Plagiobothrys acanthocarpus, Psilocarphus brevissimus</i>
19	P	Depress	129	22	Isolate	32.55896	-117.01924	Depression	<i>Psilocarphus brevissimus, Hordeum murinum, Festuca perennis</i>
20	P	Depress	69	14	Isolate	32.55891	-117.01926	Depression	<i>Psilocarphus brevissimus, Plantago elongata, Hordeum murinum</i>
21	P	Depress	766	42	Isolate	32.55899	-117.0193	Depression	<i>Plagiobothrys acanthocarpus, Psilocarphus brevissimus, Hordeum murinum</i>
22	P	Depress	1,056	32	Isolate	32.55882	-117.02007	Depression	<i>Crassula aquatica, Spergularia bocconi, Plagiobothrys acanthocarpus</i>



Table 4  
List of Aquatic Resources

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
23	P	Depress	77	11	Isolate	32.55899	-117.01867	Depression	<i>Spergularia bocconi</i> , <i>Hordeum murinum</i> , <i>Plagiobothrys acanthocarpus</i>
24	P	Depress	31	10	Isolate	32.55896	-117.0187	Depression	<i>Anagallis arvensis</i> , <i>Plantago elongata</i> , <i>Hordeum murinum</i>
25	P	Depress	39	11	Isolate	32.5589	-117.01871	Depression	<i>Lythrum hyssopifolia</i> , <i>Hordeum murinum</i> , <i>Plagiobothrys acanthocarpus</i>
26	P	Depress	334	78	Isolate	32.55876	-117.01867	Depression	<i>Lythrum hyssopifolia</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Hordeum murinum</i>
27	P	Depress	31	10	Isolate	32.55883	-117.01876	Depression	<i>Psilocarphus brevissimus</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Plantago elongata</i>
28	P	Depress	22	6	Isolate	32.55877	-117.01871	Depression	<i>Plantago elongata</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Psilocarphus brevissimus</i>
29	P	Depress	53	21	Isolate	32.55861	-117.01877	Depression	<i>Hordeum murinum</i> , <i>Erodium botrys</i> , <i>Plagiobothrys acanthocarpus</i>
30	P	Depress	32	22	Isolate	32.55863	-117.01879	Depression	<i>Lepidium nitidum</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Bromus hordeaceus</i>
31	P	Depress	24	7	Isolate	32.55862	-117.01889	Depression	<i>Psilocarphus brevissimus</i> , <i>Lythrum hyssopifolia</i> , <i>Spergularia bocconi</i>
32	P	Depress	39	9	Isolate	32.55859	-117.01888	Depression	<i>Psilocarphus brevissimus</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Deinandra fasciculata</i>
33	P	Depress	68	15	Isolate	32.55855	-117.01886	Depression	<i>Psilocarphus brevissimus</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Hordeum murinum</i>
34	P	Depress	49	13	Isolate	32.55869	-117.01897	Depression	<i>Psilocarphus brevissimus</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Hordeum murinum</i>
35	P	Depress	43	10	Isolate	32.55821	-117.0186	Depression	<i>Psilocarphus brevissimus</i> , <i>Spergularia bocconi</i> , <i>Lythrum hyssopifolia</i>
36	P	Depress	44	12	Isolate	32.55825	-117.01859	Depression	<i>Hordeum murinum</i> , <i>Spergularia bocconi</i>
37	P	Depress	22	6	Isolate	32.55829	-117.01858	Depression	<i>Chrysanthemum coronarium</i> , <i>Hordeum murinum</i> , <i>Spergularia bocconi</i>
38	P	Depress	20	80	Isolate	32.55838	-117.01857	Depression	<i>Mesembryanthemum nodiflorum</i> , <i>Hordeum murinum</i>
39	P	Depress	10	37	Isolate	32.55842	-117.01859	Depression	<i>Hordeum murinum</i> , <i>Salsola tragus</i> , <i>Bromus madritensis</i>



Table 4  
List of Aquatic Resources

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
40	P	Depress	20	6	Isolate	32.55818	-117.01861	Depression	<i>Spergularia bocconi</i> , <i>Erodium botrys</i> , <i>Hordeum murinum</i>
41	P	Depress	10	4	Isolate	32.55816	-117.01862	Depression	<i>Spergularia bocconi</i>
42	P	Depress	41	12	Isolate	32.55809	-117.0186	Depression	<i>Hordeum murinum</i> , <i>Mesembryanthemum nodiflorum</i> , <i>Spergularia bocconi</i>
43	P	Depress	45	18	Isolate	32.55796	-117.01857	Depression	<i>Festuca perennis</i> , <i>Hordeum murinum</i> , <i>Psilocarphus brevissimus</i>
44	P	Depress	172	59	Isolate	32.55791	-117.01862	Depression	<i>Festuca perennis</i> , <i>Hordeum murinum</i> , <i>Lythrum hyssopifolia</i>
45	P	Depress	101	32	Isolate	32.55797	-117.01864	Depression	<i>Lythrum hyssopifolia</i> , <i>Festuca perennis</i> , <i>Bromus hordeaceus</i>
46	P	Depress	41	15	Isolate	32.55789	-117.01857	Depression	<i>Hordeum murinum</i> , <i>Spergularia bocconi</i> , <i>Plagiobothrys acanthocarpus</i>
47	P	Depress	76	23	Isolate	32.55807	-117.01875	Depression	<i>Bromus hordeaceus</i> , <i>Psilocarphus brevissimus</i> , <i>Plagiobothrys acanthocarpus</i>
48	P	Depress	18	8	Isolate	32.55803	-117.01879	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Spergularia bocconi</i> , <i>Hordeum murinum</i>
49	P	Depress	280	38	Isolate	32.55467	-117.02501	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Psilocarphus brevissimus</i> , <i>Spergularia bocconi</i>
50	P	Depress	66	18	Isolate	32.55596	-117.02615	Depression	<i>Chrysanthemum coronarium</i> , <i>Mesembryanthemum nodiflorum</i>
51	P	Depress	22	7	Isolate	32.55599	-117.02616	Depression	<i>Chrysanthemum coronarium</i>
52	P	Depress	127	32	Isolate	32.55602	-117.02622	Depression	<i>Chrysanthemum coronarium</i> , <i>Lepidium nitidum</i> , <i>Psilocarphus brevissimus</i>
53	P	Depress	15	6	Isolate	32.55643	-117.02687	Depression	<i>Chrysanthemum coronarium</i> , <i>Mesembryanthemum nodiflorum</i>
54	P	Depress	348	20	Isolate	32.55517	-117.02487	Depression	<i>Psilocarphus brevissimus</i> , <i>Lilaea scilloides</i> , <i>Rumex crispus</i>
55	P	Depress	75	23	Isolate	32.55513	-117.02487	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Rumex crispus</i> , <i>Lepidium nitidum</i>
56	P	Depress	173	28	Isolate	32.55506	-117.02481	Depression	<i>Rumex crispus</i> , <i>Lilaea scilloides</i> , <i>Spergularia bocconi</i>
57	P	Depress	51	9	Isolate	32.55506	-117.02487	Depression	<i>Rumex crispus</i> , <i>Psilocarphus brevissimus</i> , <i>Spergularia bocconi</i>



**Table 4**  
**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
58	P	Depress	274	25	Isolate	32.55526	-117.02482	Depression	<i>Rumex crispus, Psilocarphus brevissimus, Lythrum hyssopifolia</i>
59	P	Depress	23	9	Isolate	32.55491	-117.02434	Depression	<i>Hordeum murinum, Plagiobothrys acanthocarpus, Mesembryanthemum nodiflorum</i>
60	P	Depress	33	9	Isolate	32.55488	-117.02417	Depression	<i>Hordeum murinum, Festuca perennis, Erodium botrys</i>
61	P	Depress	49	5	Isolate	32.55487	-117.02413	Depression	<i>Hordeum murinum, Plagiobothrys acanthocarpus, Lepidium nitidum</i>
64	P	Depress	12	5	Isolate	32.55483	-117.02407	Depression	<i>Hordeum murinum, Mesembryanthemum nodiflorum</i>
65	P	Depress	23	10	Isolate	32.55483	-117.02403	Depression	<i>Hordeum murinum, Mesembryanthemum nodiflorum</i>
66	P	Depress	233	52	Isolate	32.55481	-117.02404	Depression	<i>Lythrum hyssopifolia, Spergularia bocconi, Plagiobothrys acanthocarpus</i>
67	P	Depress	202	41	Isolate	32.55477	-117.02391	Depression	<i>Plagiobothrys acanthocarpus, Spergularia bocconi, Hordeum murinum</i>
68	P	Depress	57	12	Isolate	32.55468	-117.02359	Depression	<i>Hordeum murinum, Plagiobothrys acanthocarpus, Lepidium latipes</i>
69	P	Depress	28	10	Isolate	32.55461	-117.02337	Depression	<i>Plagiobothrys acanthocarpus, Lepidium latipes, Hordeum murinum</i>
70	P	Depress	48	12	Isolate	32.55455	-117.02327	Depression	<i>Plagiobothrys acanthocarpus, Spergularia bocconi, Lepidium latipes</i>
71	P	Depress	34	8	Isolate	32.55452	-117.02311	Depression	<i>Hordeum murinum, Spergularia bocconi, Plagiobothrys acanthocarpus</i>
72	P	Depress	48	10	Isolate	32.55445	-117.0229	Depression	<i>Psilocarphus brevissimus, Hordeum murinum, Spergularia bocconi</i>
73	P	Depress	30	7	Isolate	32.55445	-117.02284	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Hordeum murinum</i>
74	P	Depress	25	6	Isolate	32.55443	-117.02281	Depression	<i>Spergularia bocconi, Plagiobothrys acanthocarpus, Psilocarphus brevissimus</i>
75	P	Depress	29	10	Isolate	32.5549	-117.02284	Depression	<i>Plagiobothrys acanthocarpus, Festuca perennis, Erodium botrys</i>



Table 4  
List of Aquatic Resources

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
76	P	Depress	39	9	Isolate	32.55521	-117.0234	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Festuca perennis</i>
77	P	Depress	24	7	Isolate	32.55901	-117.01894	Depression	<i>Psilocarphus brevissimus, Plantago elongata, Spergularia bocconi</i>
78	P	Depress	18	7	Isolate	32.55884	-117.01887	Depression	<i>Spergularia bocconi, Plagiobothrys acanthocarpus, Psilocarphus brevissimus</i>
79	P	Depress	65	12	Isolate	32.55849	-117.01889	Depression	<i>Spergularia bocconi, Plagiobothrys acanthocarpus, Psilocarphus brevissimus</i>
80	P	Depress	63	14	Isolate	32.55844	-117.01877	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Lythrum hyssopifolia</i>
81	P	Depress	24	9	Isolate	32.55853	-117.01871	Depression	<i>Spergularia bocconi</i>
82	P	Depress	24	8	Isolate	32.55857	-117.0187	Depression	<i>Spergularia bocconi, Mesembryanthemum nodiflorum, Salsola tragus</i>
83	P	Depress	57	11	Isolate	32.55894	-117.01899	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Hordeum murinum</i>
84	P	Depress	106	17	Isolate	32.5589	-117.01887	Depression	<i>Psilocarphus brevissimus, Plantago elongata, Plagiobothrys acanthocarpus</i>
85	P	Depress	57	18	Isolate	32.55852	-117.01911	Depression	<i>Psilocarphus brevissimus, Spergularia bocconi, Plagiobothrys acanthocarpus</i>
86	P	Depress	21	6	Isolate	32.55933	-117.01897	Depression	<i>Psilocarphus brevissimus, Plantago elongata, Spergularia bocconi</i>
87	P	Depress	43	13	Isolate	32.55891	-117.0188	Depression	<i>Plantago elongata, Hordeum murinum, Spergularia bocconi</i>
88	P	Depress	79	15	Isolate	32.55854	-117.01913	Depression	<i>Psilocarphus brevissimus, Plantago elongata, Spergularia bocconi</i>
89	P	Depress	412	33	Isolate	32.55839	-117.01916	Depression	<i>Psilocarphus brevissimus, Spergularia bocconi, Plagiobothrys acanthocarpus</i>
90	P	Depress	21	6	Isolate	32.55948	-117.01905	Depression	<i>Hordeum murinum, Psilocarphus brevissimus, Bromus hordeaceus</i>
91	P	Depress	20	5	Isolate	32.55943	-117.01904	Depression	<i>Hordeum murinum, Psilocarphus brevissimus, Mesembryanthemum nodiflorum</i>
92	P	Depress	16	5	Isolate	32.55938	-117.01903	Depression	<i>Psilocarphus brevissimus, Spergularia bocconi, Schismus barbatus</i>



**Table 4**  
**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
93	P	Depress	33	7	Isolate	32.55938	-117.019	Depression	<i>Schismus barbatus, Psilocarphus brevissimus, Plantago elongata</i>
94	P	Depress	13	5	Isolate	32.55945	-117.01904	Depression	<i>Hordeum murinum, Psilocarphus brevissimus, Schismus barbatus</i>
95	P	Depress	4	3	Isolate	32.5593	-117.01895	Depression	<i>Psilocarphus brevissimus, Plantago elongata,</i>
96	P	Depress	103	18	Isolate	32.55925	-117.01898	Depression	<i>Schismus barbatus, Mesembryanthemum nodiflorum</i>
97	P	Depress	14	5	Isolate	32.55929	-117.01903	Depression	<i>Hordeum murinum, Plantago elongata, Spergularia bocconi</i>
99	P	Depress	103	14	Isolate	32.55922	-117.01897	Depression	No vegetation but contains San Diego fairy shrimp ( <i>Branchinecta sandiegonensis</i> )
100	P	Depress	29	5	Isolate	32.5592	-117.01899	Depression	<i>Hordeum murinum, Spergularia bocconi, Psilocarphus brevissimus</i>
101	P	Depress	70	7	Isolate	32.55891	-117.01904	Depression	<i>Hordeum murinum, Spergularia bocconi, Plantago elongata</i>
102	P	Depress	23	6	Isolate	32.55888	-117.019	Depression	<i>Psilocarphus brevissimus, Hordeum murinum, Plantago elongata</i>
103	P	Depress	87	12	Isolate	32.55867	-117.0192	Depression	<i>Psilocarphus brevissimus, Deinandra fasciculata, Plagiobothrys acanthocarpus</i>
104	P	Depress	48	9	Isolate	32.5586	-117.01913	Depression	<i>Psilocarphus brevissimus, Spergularia bocconi, Festuca perennis</i>
105	P	Depress	17	7	Isolate	32.55853	-117.01868	Depression	<i>Matricaria discoidea, Mesembryanthemum nodiflorum</i>
106	P	Depress	104	13	Isolate	32.55836	-117.01871	Depression	<i>Psilocarphus brevissimus, Plantago elongata, Plagiobothrys acanthocarpus</i>
107	P	Depress	72	13	Isolate	32.5566	-117.02716	Depression	<i>Mesembryanthemum nodiflorum, Lepidium nitidum, Sonchus asper</i>
108	P	Depress	6	3	Isolate	32.55949	-117.01899	Depression	<i>Psilocarphus brevissimus, Hordeum murinum, Plantago elongata</i>
109	P	Depress	16	5	Isolate	32.55893	-117.01896	Depression	<i>Plantago elongata, Psilocarphus brevissimus, Plagiobothrys acanthocarpus</i>
110	P	Depress	115	10	Isolate	32.55441	-117.02396	Depression	<i>Anagallis arvensis, Spergularia bocconi, Psilocarphus brevissimus</i>



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**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
111	P	Depress	214	50	Isolate	32.55444	-117.02391	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Erodium botrys</i>
112	P	Depress	69	36	Isolate	32.55437	-117.02323	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Mesembryanthemum nodiflorum</i>
113	P	Depress	54	12	Isolate	32.55526	-117.02469	Depression	<i>Festuca perennis, Psilocarphus brevissimus, Plagiobothrys acanthocarpus</i>
114	P	Depress	171	19	Isolate	32.55835	-117.01874	Depression	<i>Psilocarphus brevissimus, Rumex crispus</i>
115	P	Depress	73	35	Isolate	32.55441	-117.02396	Depression	<i>Psilocarphus brevissimus, Deinandra fasciculata, Bromus hordeaceus</i>
116	P	Depress	223	29	Isolate	32.55659	-117.02701	Depression	<i>Plantago elongata, Spergularia bocconi, Erodium botrys</i>
117	P	Depress	211	30	Isolate	32.55604	-117.02523	Depression	<i>Plagiobothrys acanthocarpus, Spergularia bocconi, Deinandra fasciculata</i>
118	P	Depress	79	17	Isolate	32.55523	-117.02374	Depression	No vegetation but contains San Diego fairy shrimp ( <i>Branchinecta sandiegonensis</i> )
119	P	Depress	14	5	Isolate	32.5552	-117.02337	Depression	<i>Plagiobothrys acanthocarpus, Spergularia bocconi</i>
120	P	Depress	214	24	Isolate	32.5552	-117.02315	Depression	<i>Plagiobothrys acanthocarpus, Spergularia bocconi, Hordeum murinum</i>
121	P	Depress	38	9	Isolate	32.5546	-117.02333	Depression	<i>Plagiobothrys acanthocarpus, Plantago elongata, Spergularia bocconi</i>
123/ VPHCP 3150	P	Depress	56	11	Isolate	32.55857	-117.01874	Depression	No vegetation but contains San Diego fairy shrimp ( <i>Branchinecta sandiegonensis</i> )
124	P	Depress	56	11	Isolate	32.55861	-117.01868	Depression	<i>Plantago elongata, Lythrum hyssopifoli, Bromus hordeaceus</i>
125	P	Depress	94	15	Isolate	32.55439	-117.02278	Depression	<i>Plantago elongata, Psilocarphus brevissimus</i>
126	P	Depress	68	12	Isolate	32.55439	-117.02282	Depression	<i>Spergularia bocconi, Lepidium nitidum, Lepidium latipes</i>
127	P	Depress	86	22	Isolate	32.55453	-117.02319	Depression	No vegetation but contains San Diego fairy shrimp ( <i>Branchinecta sandiegonensis</i> )
130	P	Depress	12	7	Isolate	32.55577	-117.02519	Depression	<i>Deinandra fasciculata, Crassula aquatica, Spergularia bocconi</i>



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**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
131	P	Depress	87	17	Isolate	32.55806	-117.01916	Depression	<i>Spergularia bocconi</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Erodium botrys</i>
132	P	Depress	24	8	Isolate	32.55946	-117.01907	Depression	<i>Hordeum murinum</i> , <i>Spergularia bocconi</i> , <i>Plagiobothrys acanthocarpus</i>
135	P	Depress	16	6	Isolate	32.55944	-117.01907	Depression	<i>Psilocarphus brevissimus</i> <i>Hordeum murinum</i> , <i>Mesembryanthemum nodiflorum</i>
143	P	Depress	13	6	Isolate	32.55927	-117.01912	Depression	No vegetation but contains San Diego fairy shrimp ( <i>Branchinecta sandiegonensis</i> )
149	P	Depress	60	15	Isolate	32.55922	-117.01902	Depression	<i>Plantago elongata</i> , <i>Matricaria discoidea</i> , <i>Spergularia bocconi</i>
150	P	Depress	1,105	78	Isolate	32.55911	-117.01862	Depression	<i>Rumex crispus</i> , <i>Psilocarphus brevissimus</i> , <i>Lythrum hyssopifolia</i>
151	P	Depress	15	6	Isolate	32.55881	-117.019	Depression	<i>Spergularia bocconi</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Plantago elongata</i>
152	P	Depress	23	9	Isolate	32.55868	-117.01908	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Spergularia bocconi</i> , <i>Deinandra fasciculata</i>
153	P	Depress	25	8	Isolate	32.55825	-117.01874	Depression	No vegetation but contains San Diego fairy shrimp ( <i>Branchinecta sandiegonensis</i> )
154	P	Depress	186	22	Isolate	32.55803	-117.0186	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Hordeum murinum</i> , <i>Lepidium nitidum</i>
155	P	Depress	80	15	Isolate	32.55849	-117.01857	Depression	<i>Plantago elongata</i> , <i>Hordeum murinum</i> , <i>Glebionis coronaria</i>
157	P	Depress	32	9	Isolate	32.55935	-117.01903	Depression	<i>Hordeum murinum</i> , <i>Psilocarphus brevissimus</i> , <i>Spergularia bocconi</i>
158	P	Depress	71	18	Isolate	32.55669	-117.02718	Depression	unvegetated
160	P	Depress	11	5	Isolate	32.558	-117.01856	Depression	No vegetation but contains San Diego fairy shrimp ( <i>Branchinecta sandiegonensis</i> )
161	P	Depress	27	13	Isolate	32.55787	-117.01859	Depression	<i>Festuca perennis</i> , <i>Hordeum murinum</i>
162	P	Depress	23	8	Isolate	32.5582	-117.01872	Depression	<i>Spergularia bocconi</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Psilocarphus brevissimus</i>
165/ VPHCP 3153	P	Depress	42	10	Isolate	32.55844	-117.01847	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Lythrum hyssopifolia</i> , <i>Bromus hordeaceus</i>



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Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
166	P	Depress	78	12	Isolate	32.55891	-117.01857	Depression	<i>Spergularia bocconi</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Plantago elongata</i>
167	P	Depress	16	7	Isolate	32.55913	-117.01965	Depression	<i>Deinandra fasciculata</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Plantago elongata</i>
168	P	Depress	130	18	Isolate	32.55886	-117.01947	Depression	<i>Erodium botrys</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Psilocarphus brevissimus</i>
169	P	Depress	204	24	Isolate	32.55853	-117.01932	Depression	<i>Spergularia bocconi</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Matricaria discoidea</i>
170	P	Depress	97	13	Isolate	32.55841	-117.01928	Depression	<i>Psilocarphus brevissimus</i> , <i>Spergularia bocconi</i> , <i>Plagiobothrys acanthocarpus</i>
171	P	Depress	43	10	Isolate	32.55866	-117.01891	Depression	<i>Spergularia bocconi</i> , <i>Plantago elongata</i> , <i>Plagiobothrys acanthocarpus</i>
172/ VPHCP 3148	P	Depress	67	17	Isolate	32.55861	-117.01883	Depression	<i>Erodium botrys</i> , <i>Deinandra fasciculata</i> , <i>Psilocarphus brevissimus</i>
173	P	Depress	58	12	Isolate	32.55824	-117.01892	Depression	<i>Spergularia bocconi</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Hordeum murinum</i>
174	P	Depress	101	14	Isolate	32.55919	-117.01911	Depression	<i>Spergularia bocconi</i> , <i>Plantago elongata</i> , <i>Plagiobothrys acanthocarpus</i>
176	P	Depress	71	18	Isolate	32.55934	-117.01931	Depression	<i>Hordeum murinum</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Matricaria discoidea</i>
180	P	Depress	28	8	Isolate	32.5596	-117.01993	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Deinandra fasciculata</i> , <i>Erodium botrys</i>
181	P	Depress	31	9	Isolate	32.55443	-117.02287	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Hordeum murinum</i> , <i>Plantago elongata</i>
183	P	Depress	76	17	Isolate	32.55452	-117.02323	Depression	<i>Lepidium nitidum</i> , <i>Lepidium latipes</i> , <i>Plagiobothrys acanthocarpus</i>
184	P	Depress	48	11	Isolate	32.55596	-117.02619	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Deinandra fasciculata</i>
185	P	Depress	20	8	Isolate	32.5558	-117.0259	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Deinandra fasciculata</i>
186	P	Depress	16	6	Isolate	32.5561	-117.02636	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Lepidium nitidum</i>



**Table 4**  
**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
190	P	Depress	74	18	Isolate	32.55444	-117.02275	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Plantago elongata</i>
191	P	Depress	215	32	Isolate	32.55441	-117.02272	Depression	<i>Plagiobothrys acanthocarpus, Hordeum murinum, Spergularia bocconi</i>
192	P	Depress	10	5	Isolate	32.5537	-117.02482	Depression	<i>Plagiobothrys acanthocarpus, Deinandra fasciculata</i>
193	P	Depress	276	30	Isolate	32.55339	-117.02296	Depression	<i>Plagiobothrys acanthocarpus, Psilocarphus brevissimus, Spergularia bocconi</i>
194	P	Depress	17	7	Isolate	32.55331	-117.02294	Depression	<i>Lepidium nitidum, Erodium cicutarium, Festuca perennis, Plagiobothrys acanthocarpus</i>
195/ VPHCP 1225	P	Depress	242	24	Isolate	32.55336	-117.02275	Depression	<i>Psilocarphus brevissimus, Festuca perennis, Hordeum murinum, Plantago elongata</i>
196	P	Depress	55	10	Isolate	32.55301	-117.02285	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Festuca perennis</i>
197	P	Depress	677	79	Isolate	32.55225	-117.0232	Depression	<i>Psilocarphus brevissimus, Lepidium nitidum, Deinandra fasciculata</i>
198	P	Depress	48	9	Isolate	32.55204	-117.02217	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Lepidium nitidum</i>
199	P	Depress	31	8	Isolate	32.55204	-117.02215	Depression	<i>Plagiobothrys acanthocarpus, Psilocarphus brevissimus, Hordeum murinum</i>
200	P	Depress	35	11	Isolate	32.55314	-117.02132	Depression	<i>Psilocarphus brevissimus, Festuca perennis, Plagiobothrys acanthocarpus</i>
201	P	Depress	163	29	Isolate	32.55333	-117.02111	Depression	<i>Festuca perennis, Hordeum murinum, Psilocarphus brevissimus</i>
202	P	Depress	299	48	Isolate	32.55236	-117.02071	Depression	<i>Hordeum murinum, Festuca perennis, Plagiobothrys acanthocarpus</i>
203	P	Depress	44	9	Isolate	32.55141	-117.01853	Depression	<i>Festuca perennis, Hordeum murinum, Psilocarphus brevissimus</i>
204	P	Depress	67	14	Isolate	32.55436	-117.01852	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Spergularia bocconi</i>
205	P	Depress	55	13	Isolate	32.55428	-117.01845	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Hordeum murinum</i>



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**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
206	P	Depress	170	23	Isolate	32.55044	-117.01784	Depression	<i>Psilocarphus brevissimus, Hordeum murinum, Festuca perennis</i>
207	P	Depress	93	12	Isolate	32.54995	-117.01823	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Spergularia bocconi</i>
208	P	Depress	203	23	Isolate	32.54985	-117.0173	Depression	<i>Plagiobothrys acanthocarpus, Hordeum murinum, Lepidium nitidum</i>
209	P	Depress	44	9	Isolate	32.54965	-117.01711	Depression	<i>Psilocarphus brevissimus</i>
210	P	Depress	11	5	Isolate	32.55309	-117.02286	Depression	<i>Psilocarphus brevissimus, Spergularia bocconi, Festuca perennis</i>
211	P	Depress	77	13	Isolate	32.55918	-117.0188	Depression	<i>Spergularia bocconi, \ Erodium botrys</i>
212	P	Depress	35	9	Isolate	32.55905	-117.01813	Depression	<i>Plantago elongata</i>
224	P	Depress	244	29	Isolate	32.55865	-117.01773	Depression	<i>Plagiobothrys acanthocarpus, Plantago elongata, Psilocarphus brevissimus</i>
227	P	Depress	36	12	Isolate	32.55425	-117.01433	Depression	<i>Psilocarphus brevissimus, Hordeum murinum, Festuca perennis</i>
228	P	Depress	182	21	Isolate	32.55427	-117.01557	Depression	<i>Psilocarphus brevissimus, Festuca perennis</i>
229	P	Depress	41	14	Isolate	32.5536	-117.01564	Depression	<i>Hordeum murinum, Bromus hordeaceus, Festuca perennis</i>
230	P	Depress	45	17	Isolate	32.55246	-117.0154	Depression	<i>Festuca perennis, Bromus hordeaceus</i>
233	P	Depress	134	33	Isolate	32.55208	-117.01533	Depression	<i>Festuca perennis</i>
234	P	Depress	154	39	Isolate	32.55211	-117.01522	Depression	<i>Festuca perennis</i>
235	P	Depress	477	66	Isolate	32.55219	-117.01469	Depression	<i>Festuca perennis</i>
237	P	Depress	657	86	Isolate	32.55191	-117.01528	Depression	<i>Hordeum murinum, Festuca perennis</i>
238	P	Depress	22	11	Isolate	32.54907	-117.01637	Depression	<i>Bromus madritensis</i>
239	P	Depress	16	7	Isolate	32.54926	-117.01721	Depression	<i>Plagiobothrys acanthocarpus</i>
242	P	Depress	2,882	77	Isolate	32.54997	-117.01948	Depression	<i>Rumex crispus</i>
243	P	Depress	179	23	Isolate	32.55071	-117.02072	Depression	<i>Hordeum depressum, Festuca perennis</i>
244	P	Depress	282	66	Isolate	32.55119	-117.02115	Depression	<i>Psilocarphus brevissimus</i>
245	P	Depress	156	26	Isolate	32.55052	-117.02283	Depression	<i>Psilocarphus brevissimus, Festuca perennis</i>
249	P	Depress	97	19	Isolate	32.55183	-117.02445	Depression	<i>Deinandra fasciculata, Glebonis coronaria</i>
250	P	Depress	38	17	Isolate	32.55408	-117.02533	Depression	<i>Bromus madritensis, Glebonis coronaria</i>
251	P	Depress	19	10	Isolate	32.55436	-117.02567	Depression	<i>Plagiobothrys acanthocarpus, Bromus madritensis</i>



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**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
252	P	Depress	461	53	Isolate	32.55866	-117.02703	Depression	<i>Psilocarphus brevissimus, Spergularia bocconi, Juncus bufonius</i>
253	P	Depress	205	57	Isolate	32.55801	-117.0282	Depression	<i>Erodium botrys, Centaurea melitensis</i>
254	P	Depress	383	40	Isolate	32.55813	-117.02846	Depression	<i>Crassula aquatica, Plantago elongata, Psilocarphus brevissimus</i>
255	P	Depress	19	5	Isolate	32.55816	-117.02855	Depression	<i>Spergularia bocconi, Deinandra fasciculata</i>
256	P	Depress	100	13	Isolate	32.55792	-117.03276	Depression	<i>Plantago elongata, Deinandra fasciculata, Spergularia bocconi</i>
257	P	Depress	492	40	Isolate	32.55777	-117.03299	Depression	<i>Plantago elongata, Crassula aquatica, Festuca myuros</i>
258	P	Depress	32	9	Isolate	32.55777	-117.03299	Depression	<i>Glebionis coronaria, Amblyopappus pusillus,</i>
259	P	Depress	287	35	Isolate	32.55199	-117.01839	Depression	<i>Plagiobothrys acanthocarpus, Psilocarphus brevissimus, Hordeum depressum</i>
260	P	Depress	34	10	Isolate	32.55199	-117.01839	Depression	<i>Hordeum depressum</i>
264	P	Depress	635	58	Isolate	32.55257	-117.0184	Depression	<i>Lilaea scilloides, Psilocarphus brevissimus, Festuca perennis</i>
269	P	Depress	2,408	115	Isolate	32.55213	-117.01844	Depression	<i>Hordeum depressum</i>
272	P	Depress	111	39	Isolate	32.55818	-117.02909	Depression	<i>Deinandra fasciculata</i>
273	P	Depress	13	5	Isolate	32.55192	-117.02434	Depression	<i>Festuca myuros</i>
274	P	Depress	7	3	Isolate	32.55203	-117.02443	Depression	<i>Festuca myuros</i>
276	P	Depress	106	15	Isolate	32.55339	-117.02292	Depression	<i>Festuca perennis</i>
277	P	Depress	1,298	53	Isolate	32.55282	-117.01849	Depression	<i>Festuca perennis</i>
278	P	Depress	128	19	Isolate	32.55257	-117.01853	Depression	<i>Hordeum depressum</i>
280	P	Depress	134	30	Isolate	32.55216	-117.01847	Depression	<i>Avena sp.</i>
283	P	Depress	93	12	Isolate	32.55149	-117.01844	Depression	<i>Spergularia bocconi</i>
284	P	Depress	140	17	Isolate	32.55145	-117.01844	Depression	<i>Spergularia bocconi</i>
289	P	Depress	390	30	Isolate	32.5474	-117.01787	Depression	<i>Spergularia bocconi</i>
291	P	Depress	471	36	Isolate	32.54858	-117.01674	Depression	<i>Festuca perennis</i>
292	P	Depress	133	25	Isolate	32.54852	-117.01672	Depression	<i>Plagiobothrys acanthocarpus</i>
293	P	Depress	39	8	Isolate	32.55456	-117.02277	Depression	<i>Deinandra fasciculata, Erodium botrys</i>
294	P	Depress	80	19	Isolate	32.55434	-117.01859	Depression	<i>Hordeum murinum</i>
296	P	Depress	27	7	Isolate	32.55434	-117.02218	Depression	<i>Spergularia bocconi</i>
297	P	Depress	68	15	Isolate	32.55436	-117.02259	Depression	<i>Spergularia bocconi, Matricaria discoidea</i>
298	P	Depress	52	14	Isolate	32.55438	-117.02263	Depression	<i>Spergularia bocconi</i>



Table 4  
List of Aquatic Resources

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
299	P	Depress	114	21	Isolate	32.55438	-117.02268	Depression	<i>Spergularia bocconi</i>
300	P	Depress	18	11	Isolate	32.55443	-117.02264	Depression	<i>Matricaria discoidea</i>
304	P	Depress	12	7	Isolate	32.55677	-117.02537	Depression	<i>Deinandra fasciculata</i>
306	P	Depress	204	32	Isolate	32.55517	-117.02293	Depression	<i>Festuca perennis</i>
307	P	Depress	46	11	Isolate	32.55513	-117.02281	Depression	<i>Plagiobothrys acanthocarpus</i>
309	P	Depress	330	111	Isolate	32.55318	-117.02131	Depression	<i>Hordeum murinum</i>
310	P	Depress	296	60	Isolate	32.55276	-117.02102	Depression	<i>Bromus hordeaceus</i>
311	P	Depress	16,277	185	Isolate	32.55004	-117.00971	Depression	<i>Eleocharis macrostachya</i> , <i>Festuca perennis</i>
314	P	Depress	377	40	Isolate	32.55068	-117.0202	Depression	<i>Hordeum depressum</i>
316	P	Depress	39	16	Isolate	32.54971	-117.01782	Depression	<i>Plagiobothrys acanthocarpus</i>
317	P	Depress	229	45	Isolate	32.54966	-117.01451	Depression	<i>Festuca perennis</i>
318	P	Depress	91	44	Isolate	32.55183	-117.01512	Depression	<i>Festuca perennis</i> , <i>Avena</i> sp., <i>Hordeum murinum</i>
322	P	Depress	20	7	Isolate	32.55418	-117.01559	Depression	<i>Festuca perennis</i>
324	P	Depress	125	22	Isolate	32.55424	-117.01518	Depression	<i>Festuca perennis</i>
325	P	Depress	43	13	Isolate	32.55421	-117.01506	Depression	<i>Festuca perennis</i>
326	P	Depress	88	18	Isolate	32.55381	-117.01417	Depression	<i>Bromus hordeaceus</i> , <i>Festuca perennis</i>
327	P	Depress	261	52	Isolate	32.55214	-117.0151	Depression	<i>Festuca perennis</i>
329	P	Depress	43	9	Isolate	32.55439	-117.02255	Depression	<i>Plagiobothrys acanthocarpus</i>
330	P	Depress	79	12	Isolate	32.55436	-117.02223	Depression	<i>Plantago elongata</i>
331	P	Depress	36	12	Isolate	32.5523	-117.02326	Depression	<i>Psilocarphus brevissimus</i> , <i>Festuca perennis</i>
340	P	Depress	100	17	Isolate	32.55495	-117.02629	Depression	<i>Psilocarphus brevissimus</i>
346	P	Depress	106	13	Isolate	32.557	-117.029	Depression	unvegetated
357	P	Depress	72	12	Isolate	32.56139	-117.01835	Depression	Basin was not delineated; therefore, indicator plants and vernal pool status are assumed
358	P	Depress	456	9	Isolate	32.56143	-117.01822	Depression	Basin was not delineated; therefore, indicator plants and vernal pool status are assumed
359	P	Depress	635	80	Isolate	32.5614	-117.01768	Depression	Basin was not delineated; therefore, indicator plants and vernal pool status are assumed



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**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
360	P	Depress	0	64	Isolate	32.5615	-117.01738	Depression	Basin was not delineated; therefore, indicator plants and vernal pool status are assumed
361	P	Depress	131	43	Isolate	32.56139	-117.01705	Depression	Basin was not delineated; therefore, indicator plants and vernal pool status are assumed
362	P	Depress	23	8	Isolate	32.5614	-117.01687	Depression	Basin was not delineated; therefore, indicator plants and vernal pool status are assumed
363	P	Depress	26	7	Isolate	32.55757	-117.01858	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Erodium botrys</i> , <i>Hordeum murinum</i>
364	P	Depress	41	14	Isolate	32.55748	-117.01859	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Lythrum hyssopifolia</i> , <i>Festuca perennis</i>
365	P	Depress	33	8	Isolate	32.55732	-117.01859	Depression	<i>Plagiobothrys acanthocarpus</i>
366	P	Depress	16	5	Isolate	32.5573	-117.0186	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Festuca perennis</i> , <i>Lythrum hyssopifolia</i>
367	P	Depress	36	9	Isolate	32.5571	-117.0186	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Glebionis coronaria</i> , <i>Festuca perennis</i>
368	P	Depress	55	14	Isolate	32.55695	-117.01867	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Plantago elongate</i> , <i>Psilocarphus brevissimus</i>
369	P	Depress	1,096	90	Isolate	32.5566	-117.01868	Depression	<i>Psilocarphus brevissimus</i> , <i>Triglochin scilloide</i> , <i>Eleocharis macrostachya</i>
370	P	Depress	31	9	Isolate	32.5566	-117.01857	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Festuca perennis</i> , <i>Lythrum hyssopifolia</i>
371	P	Depress	95	21	Isolate	32.55647	-117.01859	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Festuca perennis</i> , <i>Lythrum hyssopifolia</i>
372	P	Depress	95	15	Isolate	32.5564	-117.01858	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Triglochin scilloides</i> , <i>Lythrum hyssopifolia</i>
373	P	Depress	89	13	Isolate	32.5564	-117.01854	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Festuca perennis</i> , <i>Hordeum depressum</i>
374	P	Depress	26	9	Isolate	32.5561	-117.0185	Depression	<i>Plagiobothrys acanthocarpus</i>
375	P	Depress	51	10	Isolate	32.55602	-117.0185	Depression	<i>Plagiobothrys acanthocarpus</i> , <i>Hordeum depressum</i> , <i>Festuca perennis</i>



Table 4  
List of Aquatic Resources

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
376	P	Depress	87	20	Isolate	32.55596	-117.01855	Depression	<i>Plagiobothrys acanthocarpus, Festuca perennis, Hordeum depressum</i>
377	P	Depress	126	24	Isolate	32.55583	-117.01853	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Festuca perennis</i>
378	P	Depress	88	17	Isolate	32.55572	-117.01851	Depression	<i>Plagiobothrys acanthocarpus, Plantago elongate, Festuca perennis</i>
382	P	Depress	598	84	Isolate	32.55724	-117.01871	Depression	<i>Plagiobothrys acanthocarpus, Festuca perennis</i>
383	P	Depress	209	29	Isolate	32.5564	-117.01872	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Festuca perennis</i>
384	P	Depress	29	9	Isolate	32.55611	-117.01867	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Hordeum depressum</i>
385	P	Depress	37	14	Isolate	32.55606	-117.01872	Depression	<i>Plagiobothrys acanthocarpus, Psilocarphus brevissimus, Hordeum depressum</i>
386	P	Depress	104	15	Isolate	32.55594	-117.01873	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Triglochin scilloides</i>
387	P	Depress	51	11	Isolate	32.55592	-117.01877	Depression	<i>Plagiobothrys acanthocarpus, Psilocarphus brevissimus</i>
388	P	Depress	4	3	Isolate	32.55591	-117.01871	Depression	<i>Plagiobothrys acanthocarpus, Plantago elongate, Festuca perennis</i>
389	P	Depress	29	13	Isolate	32.55559	-117.01886	Depression	<i>Psilocarphus brevissimus, Hordeum depressum, Festuca perenni</i>
390	P	Depress	38	10	Isolate	32.55553	-117.01888	Depression	<i>Psilocarphus brevissimus, Plantago elongate, Festuca perennis</i>
391	P	Depress	188	18	Isolate	32.55544	-117.01884	Depression	<i>Triglochin scilloides, Psilocarphus brevissimus, Plagiobothrys acanthocarpus</i>
392	P	Depress	91	14	Isolate	32.55541	-117.01889	Depression	<i>Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Festuca perennis</i>
393	P	Depress	136	17	Isolate	32.55526	-117.01889	Depression	<i>Triglochin scilloides, Psilocarphus brevissimus, Plagiobothrys acanthocarpus</i>
VPHCP 135	P	Depress	156	21	Isolate	32.55433	-117.02266	Depression	<i>Festuca perennis, Psilocarphus brevissimus, Erodium botrys</i>
VPHCP 136	P	Depress	73	11	Isolate	32.55424	-117.0227	Depression	<i>Festuca perennis</i>



Table 4  
List of Aquatic Resources

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
VPHCP 278	P	Depress	4,247	108	Isolate	32.55133	-117.00908	Depression	<i>Bromus diandrus</i> , <i>Rumex crispus</i> , <i>Avena barbata</i>
VPHCP 420	P	Depress	31	8	Isolate	32.55688	-117.01848	Depression	<i>Psilocarphus brevissimus</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Festuca perennis</i>
VPHCP 539	P	Depress	5,560	123	Isolate	32.55177	-117.00866	Depression	<i>Festuca perennis</i> , <i>Eleocharis macrostachya</i> , <i>Phalaris minor</i>
VPHCP 1223	P	Depress	282	36	Isolate	32.55338	-117.02286	Depression	<i>Festuca perennis</i>
VPHCP 1224	P	Depress	109	18	Isolate	32.5534	-117.02279	Depression	<i>Festuca perennis</i> , <i>Deinandra fasciculata</i> , <i>Bromus diandrus</i>
VPHCP 1528	P	Depress	1,718	64	Isolate	32.55221	-117.00825	Depression	<i>Festuca perennis</i> , <i>Sporobolus airoides</i> , <i>Avena barbata</i>
VPHCP 1651	P	Depress	700	56	Isolate	32.55214	-117.0184	Depression	<i>Psilocarphus brevissimus</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Plantago elongata</i>
VPHCP 1752	P	Depress	328	35	Isolate	32.55239	-117.00821	Depression	<i>Festuca perennis</i> , <i>Eleocharis macrostachya</i> , <i>Bromus diandrus</i>
VPHCP 1753	P	Depress	165	25	Isolate	32.55209	-117.00798	Depression	<i>Festuca perennis</i> , <i>Bromus diandrus</i> , <i>Avena barbata</i>
VPHCP 1754	P	Depress	23,622	264	Isolate	32.54744	-117.0148	Depression	<i>Festuca perennis</i> , <i>Eleocharis macrostachya</i> , <i>Malvella leprosa</i>
VPHCP 1755	P	Depress	5,061	141	Isolate	32.54602	-117.02341	Depression	<i>Eleocharis macrostachya</i> , <i>Frankenia salina</i> , <i>Deschampsia danthoniodes</i>
VPHCP 1757	P	Depress	1,824	73	Isolate	32.5453	-117.02283	Depression	<i>Rumex crispus</i> , <i>Festuca perennis</i> , <i>Malvella leprosa</i>
VPHCP 1758	P	Depress	2,875	85	Isolate	32.54584	-117.0244	Depression	<i>Festuca perennis</i> , <i>Rumex crispus</i> , <i>Eleocharis macrostachya</i>
VPHCP 1778	P	Depress	2,469	139	Isolate	32.55381	-117.01838	Depression	<i>Hordeum depressum</i>
VPHCP 2068	P	Depress	201	23	Isolate	32.55343	-117.02283	Depression	<i>Festuca perennis</i> , <i>Hordeum murinum</i> , <i>Bromus diandrus</i>
VPHCP 2337	P	Depress	3,724	85	Isolate	32.54796	-117.01403	Depression	<i>Rumex crispus</i> , <i>Malvella leprosa</i> , <i>Festuca perennis</i>
VPHCP 3139	P	Depress	2,162	70	Isolate	32.55443	-117.02545	Depression	<i>Psilocarphus brevissimus</i> , <i>Plagiobothrys acanthocarpus</i> , <i>Plantago elongata</i>



**Table 4**  
**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
VPHCP 3145	P	Depress	258	23	Isolate	32.55864	-117.01915	Depression	<i>Eryngium aristulatum parishii, Festuca perennis, Erodium cicutarium</i>
VPHCP 3147	P	Depress	221	20	Isolate	32.55871	-117.01893	Depression	<i>Plagiobothrys acanthocarpus, Erodium botrys, Festuca myuros</i>
VPHCP 3151	P	Depress	164	16	Isolate	32.55851	-117.01882	Depression	<i>Psilocarphus brevissimus, Mesembryanthemum nodiflorum, Deinandra fasciculata</i>
VPHCP 3152	P	Depress	38	8	Isolate	32.55845	-117.0185	Depression	<i>Erodium botrys, Bromus diandrus</i>
C-27	P	Depress	73	11	Isolate	32.56156	-117.01949	Depression	<i>Filaga gallica, Festuca perennis, Avena barbata</i>
C-28	P	Depress	49	10	Isolate	32.56155	-117.01955	Depression	<i>Filaga gallica, Festuca perennis, Avena barbata</i>
C-29	P	Depress	151	18	Isolate	32.56154	-117.01959	Depression	<i>Eleocharis macrostachya, Psilocarphus brevissimus, Juncus bufonius</i>
C-30	P	Depress	121	15	Isolate	32.56154	-117.01965	Depression	<i>Juncus bufonius, Plagiobothrys acanthocarpus</i>
C-31	P	Depress	107	11	Isolate	32.56155	-117.0197	Depression	<i>Juncus bufonius, Psilocarphus brevissimus, Festuca perennis</i>
C-32	P	Depress	112	14	Isolate	32.56155	-117.01975	Depression	<i>Eleocharis macrostachya, Juncus bufonius, Festuca perennis</i>
C-33	P	Depress	124	15	Isolate	32.56155	-117.0198	Depression	<i>Juncus bufonius, Festuca perennis</i>
C-15	P	Depress	64	11	Isolate	32.561	-117.017	Depression	<i>Baccharis sarathroides, Festuca perennis</i>
C-14	P	Depress	2,063	155	Isolate	32.56148	-117.01668	Depression	<i>Festuca perennis, Avena barbata</i>
C-57	P	Depress	117	17	Isolate	32.56137	-117.01865	Depression	<i>none</i>
C-56	P	Depress	40	10	Isolate	32.56155	-117.01866	Depression	<i>none</i>
C-55	P	Depress	255	30	Isolate	32.56163	-117.01866	Depression	<i>none</i>
C-12	P	Depress	7,442	30	Isolate	32.56237	-117.01585	Depression	<i>Rumex crispus, Festuca perennis, Lythrum hyssopifolium</i>
C-16	P	Depress	488	36	Isolate	32.56159	-117.01851	Depression	<i>Tamarix rammosissima, Festuca perennis, Rumex crispus</i>
C-A	PEM	Riverine	673	300	NRPWW	32.56215	-117.01672	Ephemeral Drainage	<i>Cynodon dactylon, Tamarix rammosissima</i>



**Table 4**  
**List of Aquatic Resources**

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
C-B	PEM	Riverine	1,299	100	NRPWW	32.56167	-117.01702	Ephemeral Drainage	<i>Cyperus esculentus, Tamarix rammosissima, Rumex crispus</i>
C-E	PEM	Riverine	2,330	85	NRPWW	32.56163	-117.0179	Ephemeral Drainage	<i>Salix lasiolepis, Tamarix rammosissima, Foeniculum vulgare, Brachypodium distachyon</i>
C-I	PEM	Riverine	14,082	49	NRPWW	32.56251	-117.01675	Ephemeral Drainage	<i>Salix lasiolepis, Typha latifolia</i>
C-J	PEM	Riverine	942	70	NRPWW	32.56224	-117.01659	Ephemeral Drainage	<i>Cyperus esculentus, Rumex crispus</i>
SW-6	P	Depress	456	46	Isolate	32.55976	-117.01892	Depression	<i>Psilocarphus brevissimus, Lythrum hyssopifolia, Rumex crispus</i>
SW-5	P	Depress	1,088	65	Isolate	32.55978	-117.01944	Depression	<i>Triglochin scilloides, Psilocarphus brevissimus, Lythrum hyssopifolia</i>
P-1	P	Depress	126	30	Isolate	32.55219	-117.01404	Depression	<i>Festuca perennis, Hordeum depressum, Psilocarphus brevissimus</i>
P-2	P	Depress	27	7	Isolate	32.55221	-117.01395	Depression	<i>Festuca perennis, Psilocarphus brevissimus</i>
P-3/ VPHCP 264	P	Depress	107	33	Isolate	32.55246	-117.01298	Depression	<i>Festuca perennis, Psilocarphus brevissimus</i>
P-4/ VPHCP 1191	P	Depress	238	46	Isolate	32.55308	-117.01138	Depression	<i>Rumex crispus, Festuca perennis, Psilocarphus brevissimus</i>
P-5/ VPHCP 1192	P	Depress	174	26	Isolate	32.55325	-117.01072	Depression	<i>Festuca perennis, Psilocarphus brevissimus, Spergularia bocconi</i>
P-6/ VPHCP 263	P	Depress	1,019	61	Isolate	32.55221	-117.01121	Depression	<i>Festuca perennis, Hordeum depressum, Bromus diandrus</i>
P-7/ VPHCP 262	P	Depress	128	16	Isolate	32.55186	-117.01091	Depression	<i>Festuca perennis, Psilocarphus brevissimus, Brassica nigra</i>
P-8/ VPHCP 1194	P	Depress	245	32	Isolate	32.55091	-117.01112	Depression	<i>Rumex crispus, Psilocarphus brevissimus, Festuca perennis</i>



Table 4  
List of Aquatic Resources

Waters ID	Cowardin Code	HGM Code	Area (sq. ft.)	Linear Feet	Waters Type	Latitude (dd NAD83)	Longitude (dd NAD83)	Local Waterway	Dominant Vegetation
P-12	P	Depress	19	7	Isolate	32.54951	-117.01408	Depression	<i>Deinandra fasciculata, Plagiobothrys acanthocarpus, Hordeum murinum</i>
P-13/ VPHCP11 93	P	Depress	447	44	Isolate	32.55344	-117.00949	Depression	<i>Psilocarphus brevissimus, Festuca perennis, Juncus bufonius</i>
P-15	P	Depress	33	7	Isolate	32.55423	-117.01403	Depression	<i>Hordeum depressum, Plagiobothrys acanthocarpus, Psilocarphus brevissimus</i>
P-17	P	Depress	72	16	Isolate	32.55223	-117.01388	Depression	<i>Festuca perennis, Plagiobothrys acanthocarpus, Hordeum depressum</i>

P = Palustrine; HGM = hydrogeomorphic; PEM = Emergent, Palustrine; R = Riverine; RP = Riparian; RPW = Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs; NRPW = Non-Relatively Permanent Water; NRPWW = Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs



Table 5 OHWM and 2-year Flow Comparison within Project-level Analysis Area		
Drainage	OHWM Average Width (feet)	2-year Flood Line Average Width (feet)
A	1.5	15
B	3	14
B(b)	2.5	7.5
D	2	8
E	2.5	10
F	1.5	3*
G(b)	1.5	3*
G (upstream)**	4	4
G (downstream)**	12	13
H	3.5	11
K	2	2
M	3	3
O	3	100
P	1	1
Q	2	2
<p>*Drainages F and G(b) occur within the same 3-foot-wide 2-year flood line area.</p> <p>**The comparison for Drainage G has been split between those portions upstream vs. downstream of its confluence with Drainages F and G(b).</p>		



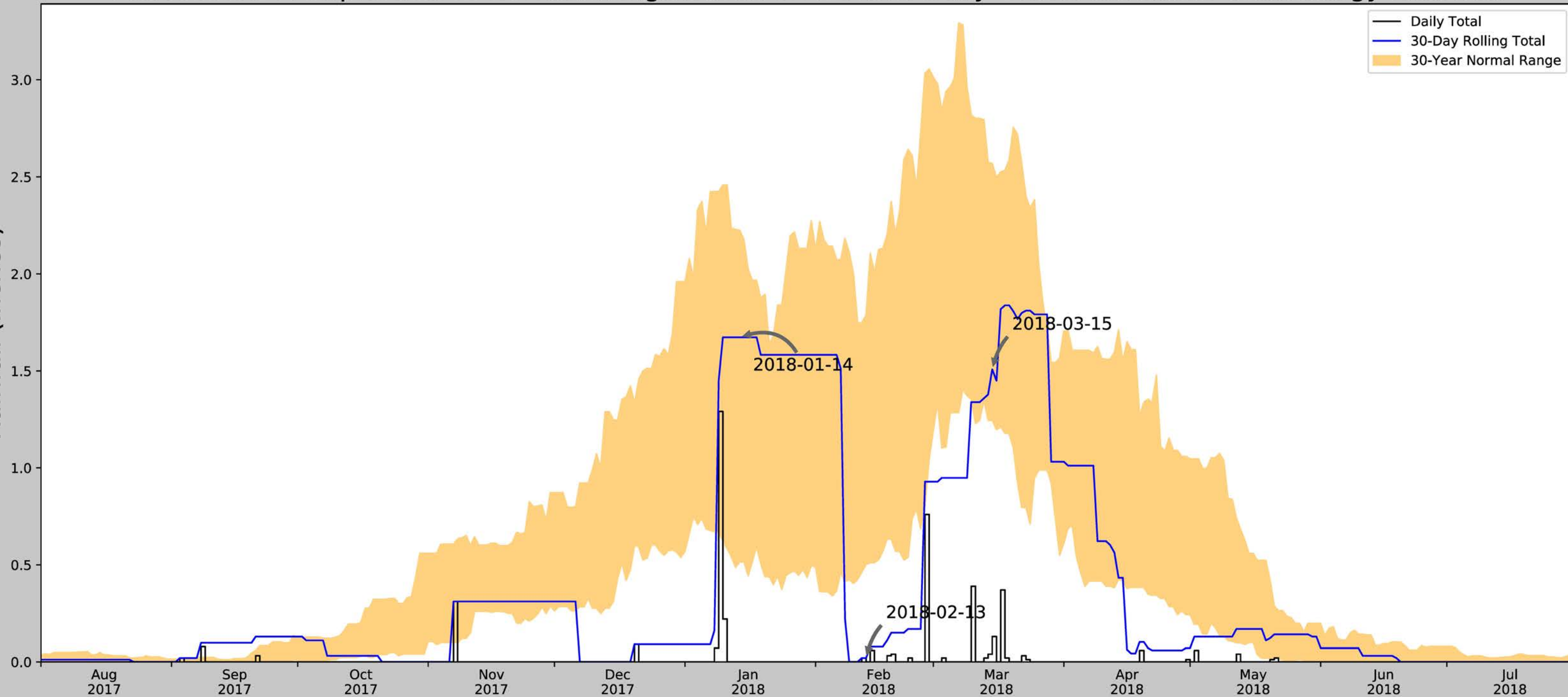
## ATTACHMENT 3

### Antecedent Precipitation Tool Results



# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

Rainfall (Inches)



Coordinates	32.559, -117.018
Observation Date	2018-03-15
Elevation (ft)	484.03
Drought Index (PDSI)	Extreme drought
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2018-03-15	1.245669	2.569685	1.507874	Normal	2	3	6
2018-02-13	0.502756	1.790945	0.019685	Dry	1	2	2
2018-01-14	0.515748	2.224803	1.673228	Normal	2	1	2
Result							Normal Conditions - 10



Figure and tables made by the  
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Version 1.0

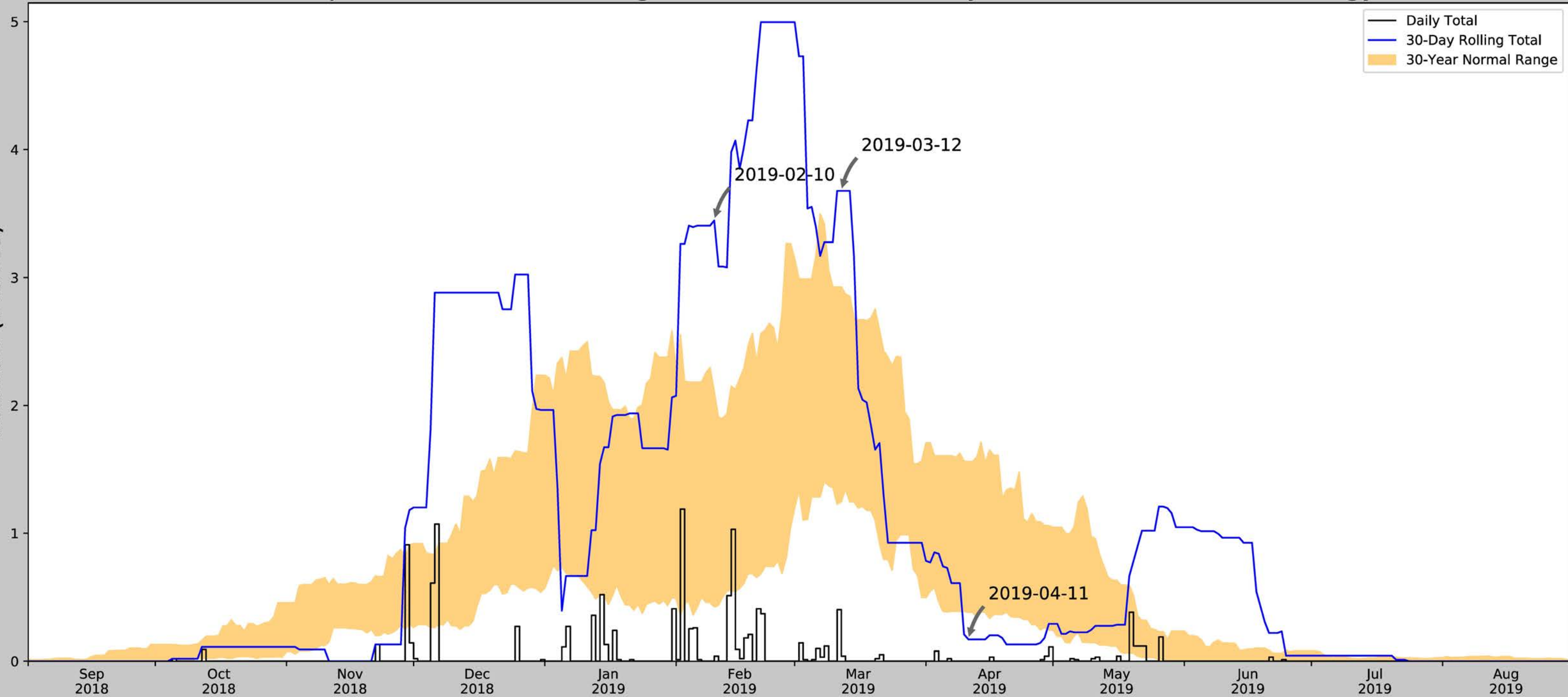
Written by Jason Deters  
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SAN DIEGO BROWN FLD	32.5722, -116.9794	515.092	2.426	31.062	1.167	7110	90
IMPERIAL BEACH 3.3 E	32.5738, -117.0625	138.123	2.786	345.907	2.217	1	0
IMPERIAL BEACH REAM FLD NAS	32.5667, -117.1167	23.95	5.772	460.08	5.253	2817	0
PRESA RODRIGUEZ	32.4333, -116.9	393.045	11.078	90.985	5.993	1411	0
CHULA VISTA	32.64, -117.0858	56.102	6.848	427.928	6.012	14	0



# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

Rainfall (Inches)



Coordinates	32.559, -117.018
Observation Date	2019-04-11
Elevation (ft)	484.03
Drought Index (PDSI)	Incipient wetness
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2019-04-11	0.381496	1.56063	0.169291	Dry	1	3	3
2019-03-12	1.245669	2.927559	3.677165	Wet	3	2	6
2019-02-10	0.424016	2.111024	3.444882	Wet	3	1	3
Result							Normal Conditions - 12



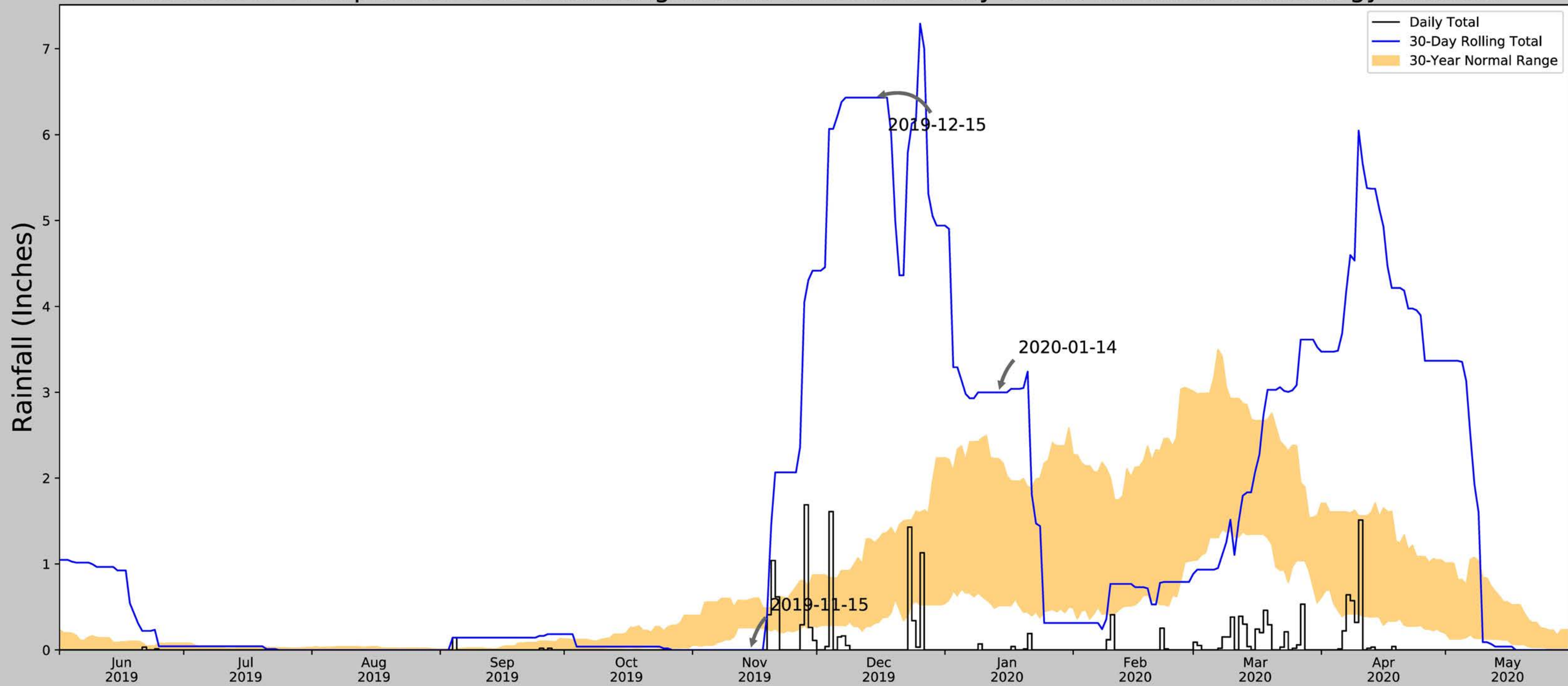
Figure and tables made by the  
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Version 1.0

Written by Jason Deters  
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SAN DIEGO BROWN FLD	32.5722, -116.9794	515.092	2.426	31.062	1.167	7474	90
IMPERIAL BEACH 3.3 E	32.5738, -117.0625	138.123	2.786	345.907	2.217	1	0
CHULA VISTA 3.1SE	32.6044, -117.0508	200.131	3.672	283.899	2.695	1	0
IMPERIAL BEACH REAM FLD NAS	32.5667, -117.1167	23.95	5.772	460.08	5.253	2603	0
PRESA RODRIGUEZ	32.4333, -116.9	393.045	11.078	90.985	5.993	1273	0
CHULA VISTA	32.64, -117.0858	56.102	6.848	427.928	6.012	1	0

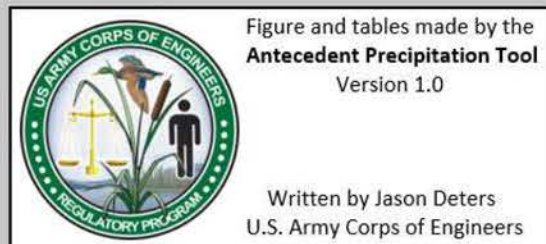


# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	32.559, -117.018
Observation Date	2020-01-14
Elevation (ft)	484.03
Drought Index (PDSI)	Incipient drought
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-01-14	0.515748	2.224803	3.0	Wet	3	3	9
2019-12-15	0.309055	1.247638	6.429134	Wet	3	2	6
2019-11-15	0.259843	0.587402	0.0	Dry	1	1	1
Result							Wetter than Normal - 16

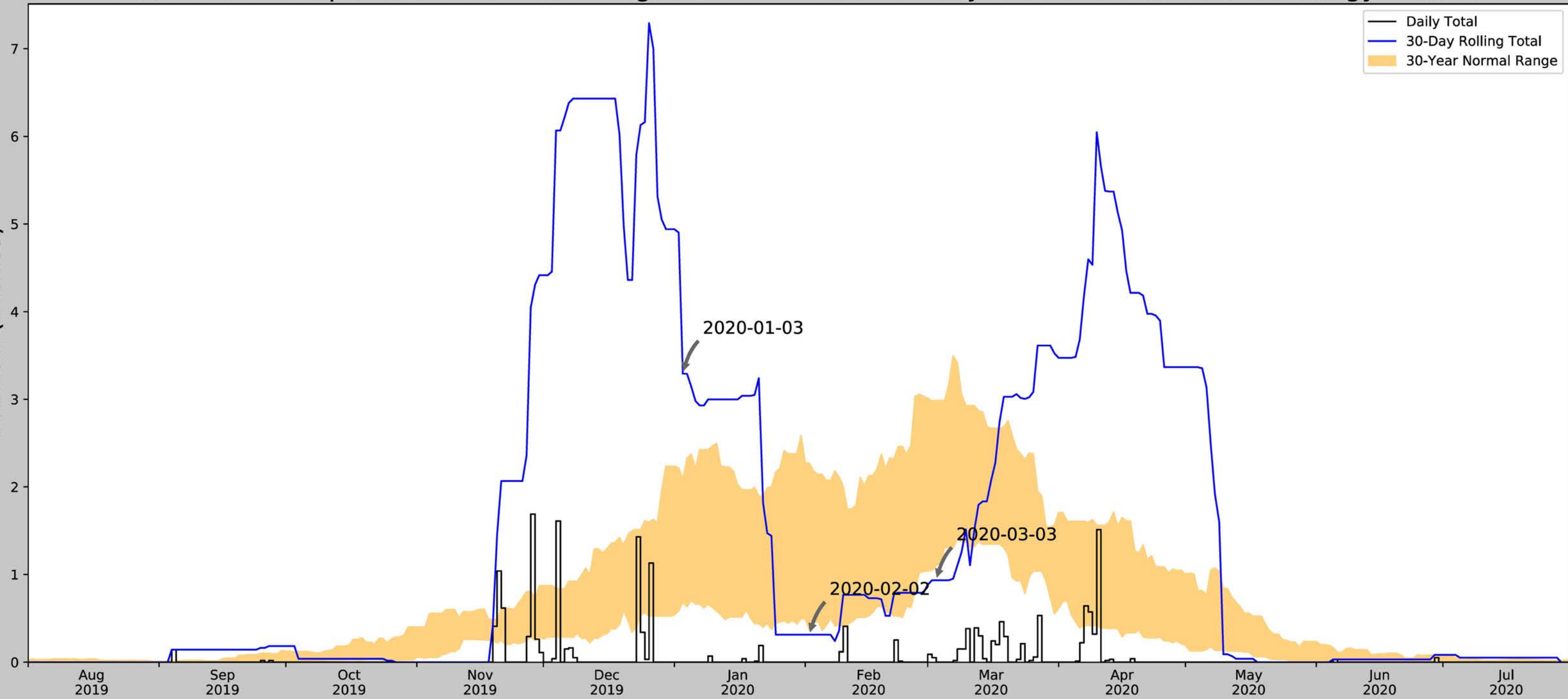


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SAN DIEGO BROWN FLD	32.5722, -116.9794	515.092	2.426	31.062	1.167	7839	90
IMPERIAL BEACH 3.3 E	32.5738, -117.0625	138.123	2.786	345.907	2.217	1	0
CHULA VISTA 3.1SE	32.6044, -117.0508	200.131	3.672	283.899	2.695	1	0
IMPERIAL BEACH REAM FLD NAS	32.5667, -117.1167	23.95	5.772	460.08	5.253	2350	0
PRESA RODRIGUEZ	32.4333, -116.9	393.045	11.078	90.985	5.993	1160	0
CHULA VISTA	32.64, -117.0858	56.102	6.848	427.928	6.012	1	0



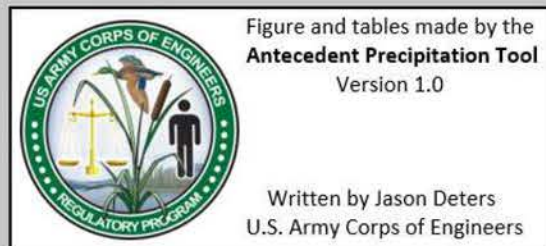
# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

Rainfall (Inches)



Coordinates	32.559, -117.018
Observation Date	2020-03-03
Elevation (ft)	484.03
Drought Index (PDSI)	Incipient wetness
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-03-03	1.102756	2.988189	0.933071	Dry	1	3	3
2020-02-02	0.362598	2.269685	0.311024	Dry	1	2	2
2020-01-03	0.686614	2.085433	3.291339	Wet	3	1	3
Result							Drier than Normal - 8

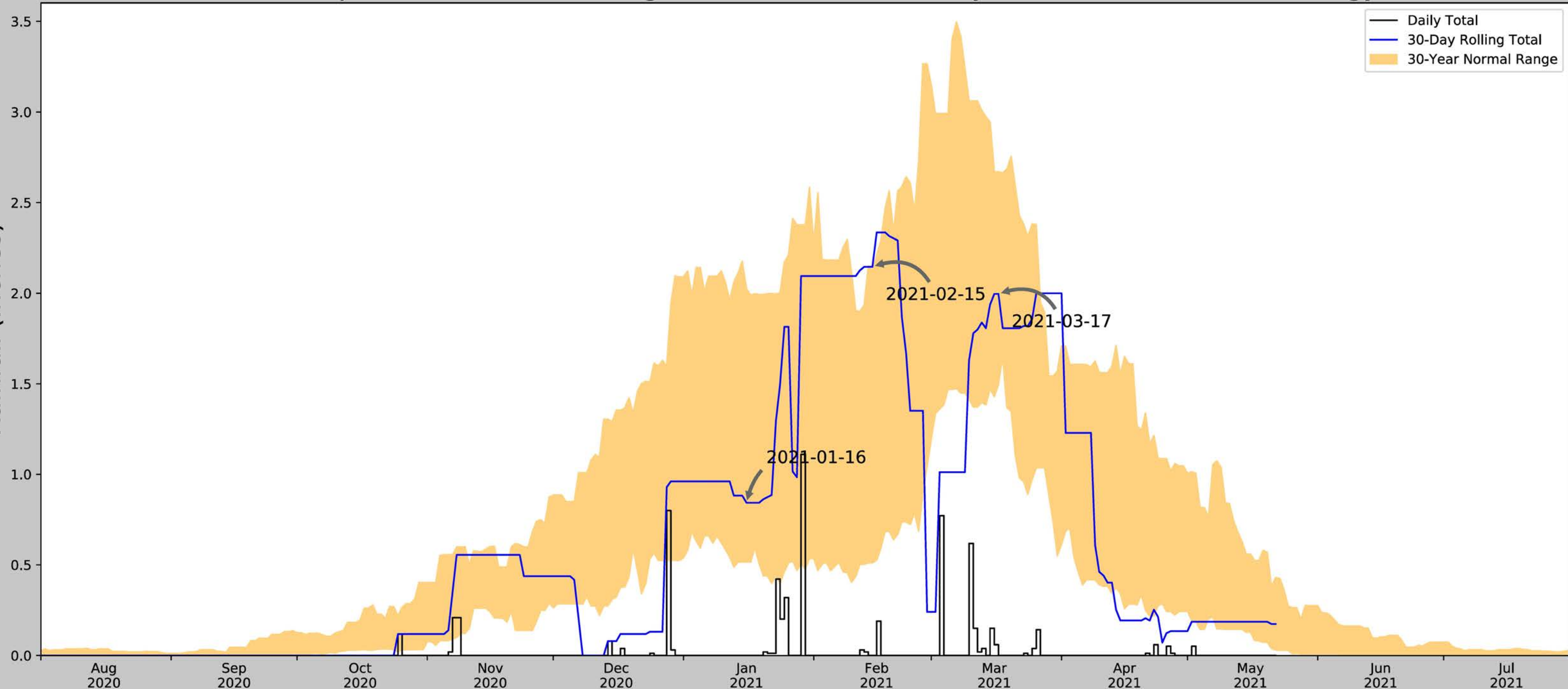


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SAN DIEGO BROWN FLD	32.5722, -116.9794	515.092	2.426	31.062	1.167	7839	90
IMPERIAL BEACH 3.3 E	32.5738, -117.0625	138.123	2.786	345.907	2.217	1	0
CHULA VISTA 3.1SE	32.6044, -117.0508	200.131	3.672	283.899	2.695	1	0
IMPERIAL BEACH REAM FLD NAS	32.5667, -117.1167	23.95	5.772	460.08	5.253	2350	0
PRESA RODRIGUEZ	32.4333, -116.9	393.045	11.078	90.985	5.993	1160	0
CHULA VISTA	32.64, -117.0858	56.102	6.848	427.928	6.012	1	0



# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

Rainfall (Inches)



Coordinates	32.559, -117.018
Observation Date	2021-03-17
Elevation (ft)	484.03
Drought Index (PDSI)	Severe drought
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-03-17	1.496063	2.67126	1.996063	Normal	2	3	6
2021-02-15	0.511024	2.126378	2.145669	Wet	3	2	6
2021-01-16	0.515748	2.024803	0.84252	Normal	2	1	2
Result							Normal Conditions - 14

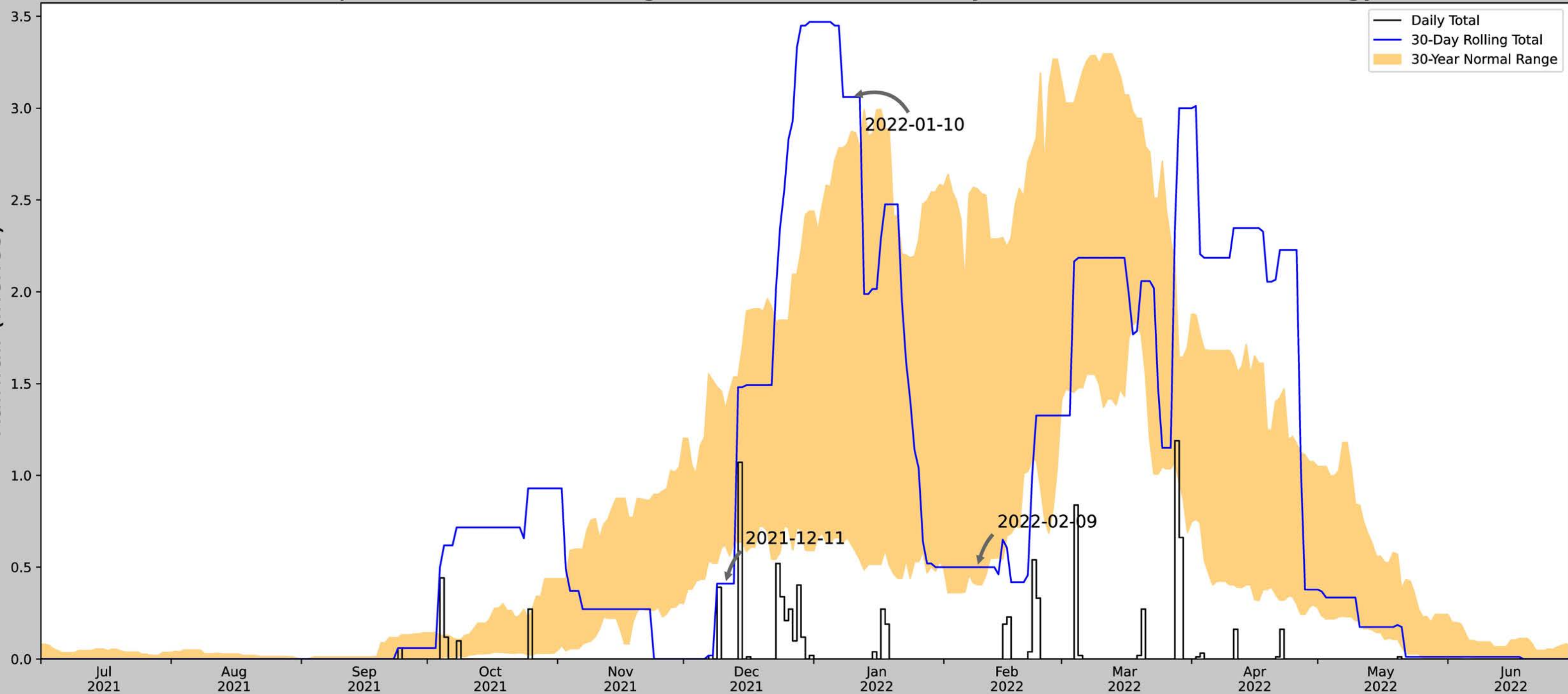


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SAN DIEGO BROWN FLD	32.5722, -116.9794	515.092	2.426	31.062	1.167	8205	90
IMPERIAL BEACH 3.3 E	32.5738, -117.0625	138.123	2.786	345.907	2.217	1	0
CHULA VISTA 3.1SE	32.6044, -117.0508	200.131	3.672	283.899	2.695	1	0
IMPERIAL BEACH REAM FLD NAS	32.5667, -117.1167	23.95	5.772	460.08	5.253	2108	0
PRESA RODRIGUEZ	32.4333, 116.9	393.045	11.078	90.985	5.993	1037	0
CHULA VISTA	32.64, -117.0858	56.102	6.848	427.928	6.012	1	0



# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

Rainfall (Inches)



Coordinates	32.559, -117.018
Observation Date	2022-02-09
Elevation (ft)	484.593
Drought Index (PDSI)	Extreme drought
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2022-02-09	0.404724	2.559843	0.5	Normal	2	3	6
2022-01-10	0.622835	2.873228	3.059055	Wet	3	2	6
2021-12-11	0.618504	1.362205	0.409449	Dry	1	1	1
Result							Normal Conditions - 13



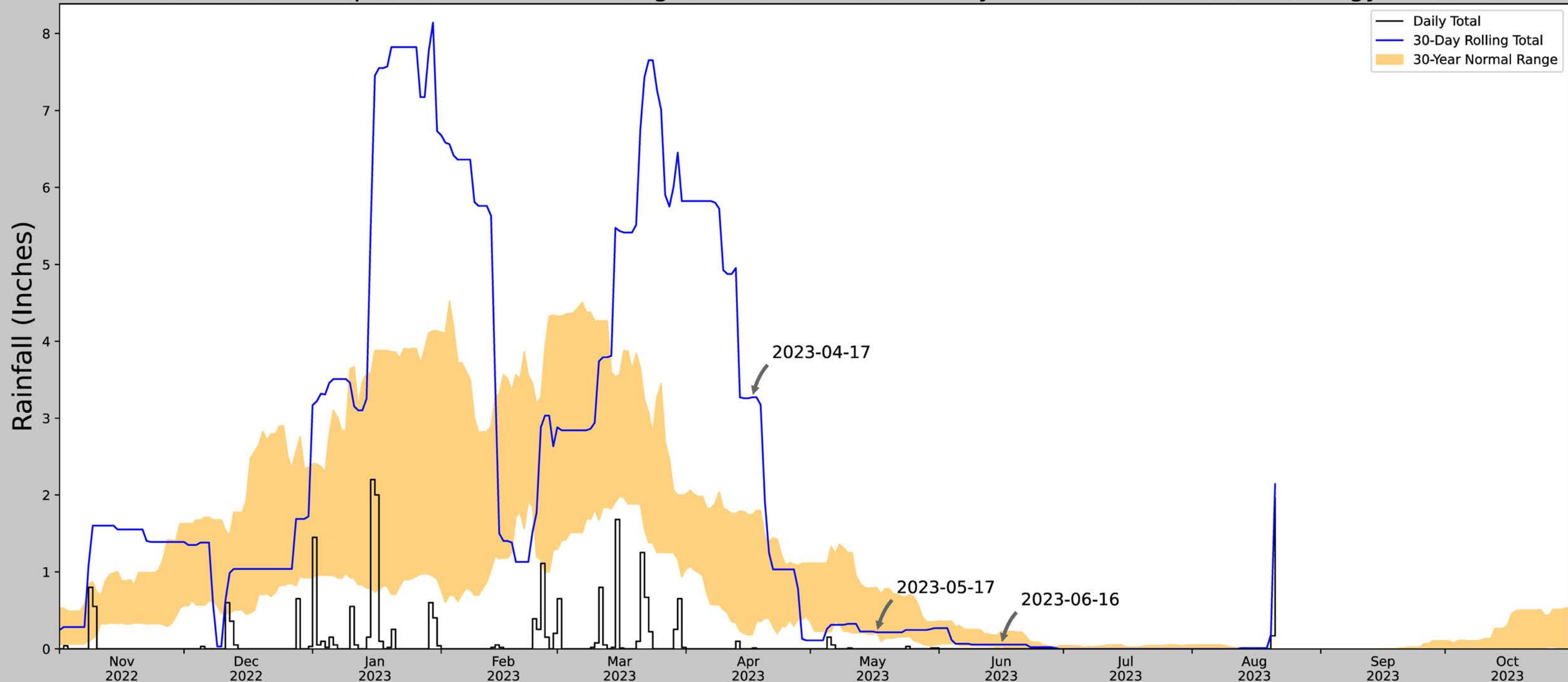
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Written by Jason Deters  
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
SAN DIEGO BROWN FLD	32.5758, -116.9939	520.997	1.821	36.404	0.886	8570	90
CHULA VISTA 6.3E	32.6381, -116.9753	555.118	4.439	34.121	2.149	2	0
LA MESA	32.7675, -117.0233	529.856	13.355	8.859	6.128	2545	0
CHULA VISTA	32.64, -117.0858	56.102	6.949	464.895	6.358	232	0
PRESA RODRIGUEZ	32.4333, -116.9	393.045	11.264	127.952	6.51	4	0



# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	32.559, -117.018
Observation Date	2023-06-16
Elevation (ft)	484.593
Drought Index (PDSI)	Severe wetness
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-06-16	0.033858	0.224016	0.055118	Normal	2	3	6
2023-05-17	0.206299	0.795276	0.212598	Normal	2	2	4
2023-04-17	0.185433	1.744882	3.271654	Wet	3	1	3
Result							Normal Conditions - 13



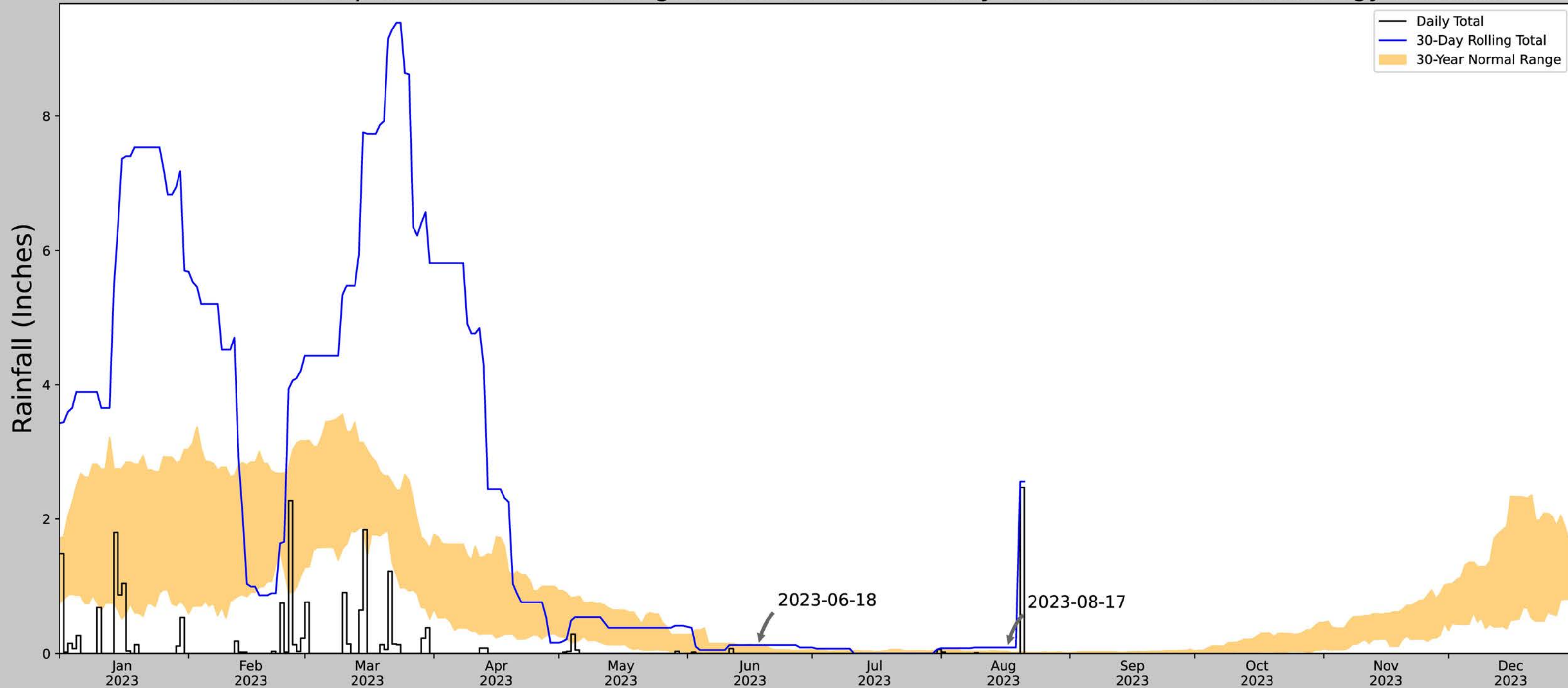
Figure and tables made by the  
**Antecedent Precipitation Tool**  
Version 1.0

Written by Jason Deters  
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
POWAY VALLEY	33.0194, -117.0308	647.966	31.819	163.373	19.517	10565	90
POWAY 4.7NNW	33.0261, -117.0466	738.845	1.026	90.879	0.555	25	0
RANCHO BERNARDO 0.5SE	33.0184, -117.0666	482.94	2.075	165.026	1.276	4	0
SAN PASQUAL ANIMAL PK	33.0956, -116.9975	419.948	5.607	228.018	3.802	720	0
ESCONDIDO #2	33.1211, -117.09	600.066	7.818	47.9	3.893	8	0
RAMONA AP	33.0381, -116.9161	1384.843	6.769	736.877	8.034	31	0



# Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	32.559, -117.018
Observation Date	2023-08-17
Elevation (ft)	484.593
Drought Index (PDSI)	Severe wetness (2023-07)
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-08-17	0.0	0.031496	0.090551	Wet	3	3	9
2023-07-18	0.0	0.037402	0.0	Normal	2	2	4
2023-06-18	0.019685	0.116142	0.122047	Wet	3	1	3
Result							Wetter than Normal - 16



Figure and tables made by the  
**Antecedent Precipitation Tool**  
Version 1.0

Written by Jason Deters  
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
CARLSBAD MCCLELLAN PALOMAR AP	33.13, -117.2764	312.992	42.208	171.601	26.236	8945	90
CARLSBAD 3.8SE	33.1187, -117.3044	167.979	1.799	145.013	1.07	1	0
CARLSBAD 2.2SE	33.1427, -117.3206	21.982	2.704	291.01	2.004	1	0
VISTA	33.2353, -117.2322	430.118	7.711	117.126	4.373	2282	0
OCEANSIDE MARINA	33.2097, -117.395	9.843	8.796	303.149	6.625	124	0



## ATTACHMENT 4

### Wetland Determination Data Forms



## Depressions



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 19, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 2  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55942 Long: -117.02221 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>9</u> (A) <u>33</u> (B) Prevalence Index = B/A = <u>3.7</u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Erodium botrys</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>		
3. <u>Deinandra fasciculata</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>		
4. <u>Crassula connata</u>		<u>1</u>	<u>N</u>	<u>FAC</u>		
5. <u>Sonchus asper</u>		<u>1</u>	<u>N</u>	<u>FAC</u>		
6. <u>Bromus madritensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>		
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>91</u> % Cover of Biotic Crust <u>0</u>						

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation, but does support one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 4-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55936 Long: -117.01909 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>x</u>
Hydric Soil Present?	Yes <u>      </u> No <u>x</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>11</u> (A) <u>41</u> (B) Prevalence Index = B/A = <u>3.7</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Hordeum murinum</u>		<u>10</u>	<u>Y</u>	<u>FACU</u>	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>89</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 4-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>x</u>
--	--

Remarks: No hydric soil indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <u>x</u> No _____    Depth (inches): <u>0</u> Water Table Present?    Yes <u>x</u> No _____    Depth (inches): <u>0</u> Saturation Present?    Yes <u>x</u> No _____    Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Evidence of surface water present at the time of the delineation indicates that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 5  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55943 Long: -117.01912 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology X naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>3</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>16</u> x 4 = <u>64</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>25</u> (A) <u>92</u> (B) Prevalence Index = B/A = <u>3.7</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>3</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Erodium cicutarium</u>		<u>5</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Erodium botrys</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Hordeum murinum</u>		<u>10</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
6. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>75</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not support hydrophytic vegetation. It does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> X Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes _____ No <input checked="" type="checkbox"/> X
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: No wetland hydrology indicators observed



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 19, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 6-WET  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55948 Long: -117.01914 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>x</u>
Hydric Soil Present?	Yes <u>      </u> No <u>x</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>12</u> x 4 = <u>48</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>14</u> (A) <u>51</u> (B) Prevalence Index = B/A = <u>3.6</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
2. <u>Erodium botrys</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
3. <u>Hordeum murinum</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>		
4. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
5. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>		
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>86</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support one vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus). Litter is present in basin.



## SOIL

Sampling Point: 6-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>x</u>
--	--

Remarks: no hydric soils observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <u>x</u> No _____    Depth (inches): <u>0</u> Water Table Present?    Yes <u>x</u> No _____    Depth (inches): <u>0</u> Saturation Present?    Yes <u>x</u> No _____    Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Evidence of surface water present at the time of the delineation indicates that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 19, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 7  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55947 Long: -117.01903 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		1	N	FACW	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Spergularia bocconi</u>		1	N	FACW	
3. <u>Hordeum murinum</u>		1	N	FACU	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					3 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					0 = Total Cover
% Bare Ground in Herb Stratum <u>97</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species, it does support one vernal pool plant indicator species (*Psilocarphus brevissimus*).



## SOIL

Sampling Point: 7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 9-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55922 Long: -117.01905 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>x</u>
Hydric Soil Present?	Yes <u>      </u> No <u>x</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>15</u> (A) <u>50</u> (B) Prevalence Index = B/A = <u>10</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>		
2. <u>Spergularia bocconi</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
3. <u>Chrysanthemum coronarium</u>	<u>2</u>	<u>N</u>	<u>UPL</u>		
4. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
5. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>		
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>85</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 9-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 5/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  x  </u>
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Remarks: No hydric soil indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <u>  x  </u> No _____    Depth (inches): <u>      0      </u> Water Table Present?    Yes <u>  x  </u> No _____    Depth (inches): <u>      0      </u> Saturation Present?    Yes <u>  x  </u> No _____    Depth (inches): <u>      0      </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>  X  </u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Evidence of surface water present at the time of the delineation indicates that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 10  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55905 Long: -117.01913 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>7</u> x 4 = <u>28</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>13</u> (A) <u>45</u> (B) Prevalence Index = B/A = <u>3.5</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		<u>3</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Chrysanthemum coronarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
3. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
4. <u>Senecio vulgaris</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Bromus madritensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>Bromus hordeaceus</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
8. <u>      </u>					
					= Total Cover
					<u>13</u>
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					<u>0</u>
% Bare Ground in Herb Stratum <u>87</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus). Leaf litter is present within vernal pool.



## SOIL

Sampling Point: 10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 11-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55897 Long: -117.01904 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology X naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>x</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>13</u> (A) <u>41</u> (B) Prevalence Index = B/A = <u>3.1</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Hordeum murinum</u>		5	Y	FACU	
2. <u>Psilocarphus brevissimus</u>		2	Y	FACW	
3. <u>Erodium botrys</u>		1	N	FACU	
4. <u>Senecio vulgaris</u>		1	N	FACU	
5. <u>Plantago elongata</u>		1	N	FACW	
6. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
7. <u>Spergularia bocconi</u>		1	N	FACW	
8. <u>Bromus hordeaceus</u>		1	N	FACU	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					0 = Total Cover
% Bare Ground in Herb Stratum <u>87</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 11-WET

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	x
----------------------	-----	----	---

Remarks: No hydric soil indicators observed

## HYDROLOGY

### Wetland Hydrology Indicators:

**Secondary Indicators (2 or more required)**

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 12-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55892 Long: -117.01909 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>				
5. <u>      </u>				
= Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Psilocarphus brevissimus</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Matricaria discoidea</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Hordeum marinum</u>	<u>4</u>	<u>N</u>	<u>FAC</u>	
5. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
= Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>78</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. It supports hydrophytic vegetation as well as three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 12-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/1	95	7.5YR 4/6	5	C/RC	M	clay	
2-18	10YR 5/3	99	7.5YR 4/6	1	C	M	clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <u>X</u> No _____
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Remarks: redox features abundant in upper layer

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and the presence of San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 13-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55893 Long: -117.01911 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>19</u> x 2 = <u>38</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>11</u> x 4 = <u>44</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>32</u> (A) <u>88</u> (B) Prevalence Index = B/A = <u>2.8</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Psilocarphus brevissimus</u>	<u>18</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Hordeum murinum</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
3. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
4. <u>Sonchus oleraceus</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
5. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
6. <u>Matricaria discoidea</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>32</u> = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
<u>      </u> = Total Cover				
<b>% Bare Ground in Herb Stratum</b> <u>68</u> <b>% Cover of Biotic Crust</b> <u>0</u>				
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. It supports hydrophytic vegetation, as well as three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).				



## SOIL

Sampling Point: 13-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	7YR 4/2	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to the presence of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 14-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55893 Long: -117.01914 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
Sapling/Shrub Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				
Herb Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Hordeum murinum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Utricularia discoidea</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Sonchus oleraceus</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
7. <u>Spergularia bocconi</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>21</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>89</u>	% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. It supports hydrophytic vegetation, as well as two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).



## SOIL

Sampling Point: 14-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox, some sand inclusions

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust and dried indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 15-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55887 Long: -117.01912 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		20	Y	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
3. <u>Matricaria discoidea</u>		3	N	FACU	
4. <u>Salsola tragus</u>		1	N	FACU	
5. <u>Deinandra fasciculata</u>		1	N	FACU	
6. <u>Hordeum murinum</u>		1	N	FACU	
7. <u>Spergularia bocconi</u>		1	N	FACW	
8. <u>Plantago elongata</u>		1	N	FACW	
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>71</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. It supports hydrophytic vegetation, as well as three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 15-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	95	7.5YR 4/6	5	C	RC	sandy clay	redox observed as ox. rhizospheres
4-18	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: meets redox dark surface indicator

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 16-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55886 Long: -117.01907 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
Herb Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>	25	Y	FACW	
2. <u>Matricaria discoidea</u>	8	N	FACU	
3. <u>Plantago elongata</u>	1	N	FACW	
4. <u>Spergularia bocconi</u>	1	N	FACW	
5. <u>Cressa truxillensis</u>	1	N	FACW	
6. <u>Deinandra fasciculata</u>	1	N	FACU	
7. <u>Hordeum murinum</u>	3	N	FACU	
8. <u>Plagiobothrys acanthocarpus</u>	1	N	OBL	
			41 = Total Cover	
Woody Vine Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>59</u>	% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. This vernal pool also supports three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 16-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	99	10YR 3/6	1	C	M/RC	clay	sparse redox
4-18	10YR 4/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: Sparse redox features in upper 4 inches. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 17-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55891 Long: -117.01916 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Psilocarphus brevissimus</u>	<u>7</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Chrysanthemum coronarium</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
3. <u>Deinandra fasciculata</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
5. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Salsola tragus</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>Matricaria discoidea</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
8. <u>      </u>				
			<u>13</u> = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>87</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. It supports hydrophytic vegetation, as well as two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 17-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	19YR 3/1	99	7.5YR 4/4	1	C	RC	sandy clay	redox in top 1" (on rhizosphere)
1-18	10YR 5/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: Some redox observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 18-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55890682570 Long: -117.01920294200 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>16</u> x 4 = <u>64</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>18</u> (A) <u>67</u> (B) Prevalence Index = B/A = <u>3.7</u>
2.					
3.					
4.					
5.					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1.	<i>Hordeum murinum</i>	15	Y	FACU	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	<i>Bromus hordeaceus</i>	1	N	FACU	
3.	<i>Plagiobothrys acanthocarpus</i>	1	N	OBL	
4.	<i>Psilocarphus brevissimus</i>	1	N	FACW	
5.					
6.					
7.					
8.					
					18 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2.					
					= Total Cover
% Bare Ground in Herb Stratum <u>82</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (*Psilocarphus brevissimus* and *Plagiobothrys acanthocarpus*).



## SOIL

Sampling Point: 18-WET

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 19  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55896087080 Long: -117.01923821000 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>5</u> (A) <u>18</u> (B) Prevalence Index = B/A = <u>3.6</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>3</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>Hordeum murinum</u>		<u>7</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Matricaria discoidea</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Lolium perenne</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
5. <u>Chrysanthemum coronarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>87</u> % Cover of Biotic Crust <u>0</u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus).					



## SOIL

Sampling Point: 19

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 20-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55891 Long: -117.01925 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>11</u> (A) <u>32</u> (B) Prevalence Index = B/A = <u>2.9</u>
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		3	Y	FACW	
2. <u>Plantago elongata</u>		1	N	FACW	
3. <u>Bromus madritensis</u>		1	N	UPL	
4. <u>Hordeum murinum</u>		1	N	FACU	
5. <u>Matricaria discoidea</u>		1	N	FACU	
6. <u>Erodium botrys</u>		3	Y	FACU	
7. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>      </u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>89</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area supports a predominance of hydrophytic vegetation, as well as three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 20-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/2	100					clay	no redox
2-6	10YR 4/2	99	10YR 3/6	1	C	M	clay	sparse redox here
6-18	10Yr 4/2	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <u>X</u> No _____
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Remarks: sparse redox features observed in depleted matrix layer

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: fc City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 21  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55899 Long: -117.019300 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>4</u> x 5 = <u>20</u> Column Totals: <u>11</u> (A) <u>39</u> (B) Prevalence Index = B/A = <u>3.5</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Psilocarphus brevissimus</u>		<u>3</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Matricaria discoidea</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Salsola tragus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Phalaris minor</u>		<u>3</u>	<u>Y</u>	<u>UPL</u>	
6. <u>Chrysanthemum coronarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>Bromus hordeaceus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>90</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 21

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 22-WET  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55881 Long: -117.02009 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Crassula aquatica</u>		1	Y	OBL	
2. <u>Spergularia bocconi</u>		2	Y	FACW	
3. <u>Lythrum hyssopifolia</u>		1	Y	OBL	
4. <u>Plantago elongata</u>		1	Y	FACW	
5. <u>Plagiobothrys acanthocarpus</u>		1	Y	OBL	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
6 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>94</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Plantago elongata, and Crassula aquatica).



## SOIL

Sampling Point: 22-WET

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: shovel refusal

Depth (inches): 10

Hydric Soil Present?	Yes	X	No
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Remarks: depleted matrix indicator observed

## HYDROLOGY

### Wetland Hydrology Indicators:

**Secondary Indicators (2 or more required)**

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	X	No
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and the presence of San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 23  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55898 Long: -117.01867 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>		<u>3</u>	<u>N</u>	<u>FACU</u>	
2. <u>Bromus hordeaceus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Phalaris minor</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
5. <u>Spergularia bocconi</u>		<u>30</u>	<u>Y</u>	<u>FACW</u>	
6. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
7. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
8. <u>Sonchus asper</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>61</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plantago elongata and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 23

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10Yr 5/2	95	7.5Yr 4/6	5	C	M	loam	
10-18	10YR 4/2	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: redox features observed within top layer (0-10")

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 24  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55895 Long: -117.01870 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>14</u> (A) <u>45</u> (B) Prevalence Index = B/A = <u>3.2</u>
1.					
2.					
3.					
4.					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
2.	<u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
3.	<u>Anagallis arvensis</u>	<u>5</u>	<u>Y</u>	<u>FAC</u>	
4.	<u>Matricaria discoidea</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
5.	<u>Hordeum murinum</u>	<u>3</u>	<u>Y</u>	<u>FACU</u>	
6.	<u>Chrysanthemum coronarium</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
7.	<u>Psilocarphus brevissimus</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
8.	<u>Bromus hordeaceus</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
		<u>14</u>	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1.					
2.					
		= Total Cover			
% Bare Ground in Herb Stratum <u>86</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 24

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of biotic crust indicates that the area ponds water. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 25  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55890 Long: -117.01871 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Lythrum hyssopifolia</u> 30 Y OBL 2. <u>Hordeum murinum</u> 10 N FACU 3. <u>Bromus hordeaceus</u> 10 N FACU 4. <u>Lolium perenne</u> 1 N FAC 5. <u>Plagiobothrys acanthocarpus</u> 1 N OBL 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 25

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10Yr 4/3	99	7.5YR 3/4	1			clay	
6-18	10Yr 5/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: Redox features observed but insufficient to meet a hydric soil indicator. However, per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 26  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55875925700 Long: -117.01867013100 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>21</u> x 1 = <u>21</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>13</u> x 4 = <u>52</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>37</u> (A) <u>82</u> (B) Prevalence Index = B/A = <u>2.2</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Chrysanthemum coronarium</u>		1	N	UPL	
2. <u>Lythrum hyssopifolia</u>		20	Y	OBL	
3. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
4. <u>Hordeum murinum</u>		10	Y	FACU	
5. <u>Plantago elongata</u>		1	N	FACW	
6. <u>Psilocarphus brevissimus</u>		1	N	FACW	
7. <u>Mesembryanthemum nodiflorum</u>		2	N	FACU	
8. <u>Deinandra fasciculata</u>		1	N	FACU	
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>x</u>
37 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>63</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area supports a predominance of hydrophytic vegetation, as well as three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 26

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and the presence of San Diego fairy shrimp indicate that the area supports ponds water and wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 27  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55883 Long: -117.01875 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
Sapling/Shrub Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		
Herb Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Plagiobothrys acanthocarpus</u>	<u>2</u>	<u>N</u>	<u>OBL</u>	
3. <u>Deinandra fasciculata</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Plantago elongata</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Lythrum hyssopifolia</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
6. <u>Lepidium latipes</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>20</u> = Total Cover		
Woody Vine Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		
% Bare Ground in Herb Stratum <u>80</u>	% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 27

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>12</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>          </u>	
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>          </u>	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>          </u>	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 28  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55876 Long: -117.01870 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Non0065

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>2</u> x 1 = <u>2</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>13</u> (A) <u>41</u> (B) Prevalence Index = B/A = <u>3.2</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
4. <u>Erodium botrys</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Mesembryanthemum nodiflorum</u>		<u>4</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
7. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
8. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>81</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not support hydrophytic vegetation. It does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 28

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-13	10Yr 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth (inches): <u>13</u>	

Remarks: No hydric soil indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 29  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55861 Long: -117.01877 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>19</u> x 4 = <u>76</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>23</u> (A) <u>87</u> (B) Prevalence Index = B/A = <u>3.8</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Hordeum murinum</u>		8	Y	FACU	
2. <u>Chrysanthemum coronarium</u>		1	N	UPL	
3. <u>Lepidium latipes</u>		1	N	FACW	
4. <u>Lepidium nitidum</u>		1	N	FAC	
5. <u>Deinandra fasciculata</u>		1	N	FACU	
6. <u>Erodium botrys</u>		10	Y	FACU	
7. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>77</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 29

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 30  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55862 Long: -117.01879 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>11</u> (A) <u>38</u> (B) Prevalence Index = B/A = <u>3.5</u>
1.					
2.					
3.					
4.					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Lepidium nitidum</u>	<u>1</u>	<u>N</u>	<u>FAC</u>	
2.	<u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
3.	<u>Lepidium latipes</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
4.	<u>Bromus hordeaceus</u>	<u>3</u>	<u>Y</u>	<u>FACU</u>	
5.	<u>Hordeum murinum</u>	<u>3</u>	<u>Y</u>	<u>FACU</u>	
6.	<u>Erodium botrys</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
7.					
8.					
		<u>11</u>	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1.					
2.					
		= Total Cover			
% Bare Ground in Herb Stratum <u>89</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 30

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 31  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55861 Long: -117.018890 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Psilocarphus brevissimus</u> 12 Y FACW 2. <u>Lythrum hyssopifolia</u> 1 N OBL 3. <u>Spergularia bocconi</u> 1 N FACW 4. <u>Crassula aquatica</u> 1 N OBL 5. <u>Plagiobothrys acanthocarpus</u> 2 N OBL 6. <u>Hypochaeris glabra</u> 1 N UPL 7. <u>Plantago elongata</u> 1 N FACW 8. <u>      </u> 19 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>81</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 31

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and the presence of San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 32  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55858 Long: -117.01888 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Psilocarphus brevissimus</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>	<u>2</u>	<u>N</u>	<u>OBL</u>	
3. <u>Deinandra fasciculata</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Spergularia bocconi</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
5. <u>Lepidium latipes</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
6. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
7. <u>Lepidium nitidum</u>	<u>1</u>	<u>N</u>	<u>FAC</u>	
8. <u>      </u>				
			= Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>78</u>	% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 32

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10Yr 4/2						sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 33  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55854 Long: -117.01886 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		20	Y	FACW	
2. <u>Plagiobothrys acanthocarpus</u>		3	N	OBL	
3. <u>Hordeum murinum</u>		2	N	FACU	
4. <u>Chrysanthemum coronarium</u>		1	N	UPL	
5. <u>Lepidium latipes</u>		1	N	FACW	
6. <u>Erodium botrys</u>		1	N	FACU	
7. <u>      </u>					
8. <u>      </u>					
		28	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
		= Total Cover			
% Bare Ground in Herb Stratum <u>72</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 33

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 34  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55868 Long: -117.018966 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Psilocarphus brevissimus</u> 25 Y FACW 2. <u>Plantago elongata</u> 1 N FACW 3. <u>Plagiobothrys acanthocarpus</u> 5 N OBL 4. <u>Hordeum murinum</u> 2 N FACU 5. <u>Sonchus oleraceus</u> 1 N UPL 6. <u>Bromus hordeaceus</u> 1 N FACU 7. <u>Deinandra fasciculata</u> 1 N FACU 8. <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>64</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 34

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 4/3	100					clay	
10-18	10YR 4/4	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 35  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55821 Long: -117.01860 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Lythrum hyssopifolia</u> 1 N OBL 2. <u>Psilocarphus brevissimus</u> 10 Y FACW 3. <u>Spergularia bocconi</u> 1 N FACW 4. <u>Matricaria discoidea</u> 1 N FACU 5. <u>Hordeum murinum</u> 1 N FACU 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 14 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>86</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 35

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 4/2	97	7.5YR 4/4	3	C	M	sandy clay	redox observed
5-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: distinct redox features observed in upper layer (0-5")

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and the presence of San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 36  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55825 Long: -117.01859 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>2</u> x 1 = <u>2</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>7</u> x 4 = <u>38</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>14</u> (A) <u>56</u> (B) Prevalence Index = B/A = <u>4</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Lythrum hyssopifolia</u>		<u>2</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Mesembryanthemum nodiflorum</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
3. <u>Chrysanthemum coronarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Spergularia bocconi</u>		<u>3</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Schismus barbatus</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>Hordeum murinum</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>86</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 36

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 37  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55829 Long: -117.01858 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>7</u> x 5 = <u>35</u> Column Totals: <u>19</u> (A) <u>78</u> (B) Prevalence Index = B/A = <u>4.1</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Chrysanthemum coronarium</u>		<u>7</u>	<u>Y</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Hordeum murinum</u>		<u>10</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Spergularia bocconi</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>81</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 37

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 38  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55837 Long: -117.01856 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>12</u> x 4 = <u>48</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals: <u>18</u> (A) <u>69</u> (B) Prevalence Index = B/A = <u>3.8</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Mesembryanthemum nodiflorum</u>		<u>6</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Salsola tragus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Chrysanthemum coronarium</u>		<u>3</u>	<u>N</u>	<u>UPL</u>	
4. <u>Hordeum murinum</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Spergularia bocconi</u>		<u>3</u>	<u>N</u>	<u>FACW</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>82</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 38

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 39  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55842 Long: -117.01859 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>23</u> x 4 = <u>92</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>25</u> (A) <u>99</u> (B) Prevalence Index = B/A = <u>3.9</u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
						= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Hordeum murinum</u>		<u>20</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Salsola tragus</u>		<u>2</u>	<u>N</u>	<u>FACU</u>		
3. <u>Bromus madritensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>		
4. <u>Spergularia bocconi</u>		<u>1</u>	<u>N</u>	<u>FACW</u>		
5. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>		
6. <u>      </u>						
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>75</u> % Cover of Biotic Crust <u>      </u>						

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 39

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 40  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55818 Long: -117.01861 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
2. <u>Spergularia bocconi</u>		<u>2</u>	<u>N</u>	<u>FACW</u>	
3. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
4 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>96</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool plant indicator species were present within the basin, but it does support vernal pool fauna indicator species (San Diego fairy shrimp).



## SOIL

Sampling Point: 40

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 41  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55816 Long: -117.01862 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Spergularia bocconi</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>99</u> % Cover of Biotic Crust <u>      </u>					
<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>					

Remarks: Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool plant indicator species were present within the basin, but it does support vernal pool fauna indicator species (San Diego fairy shrimp).



## SOIL

Sampling Point: 41

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 42  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55809 Long: -117.01860 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>17</u> x 4 = <u>68</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>18</u> (A) <u>70</u> (B) Prevalence Index = B/A = <u>3.9</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>		15	Y	FACU	
2. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
3. <u>Spergularia bocconi</u>		1	N	FACW	
4. <u>Erodium botrys</u>		1	N	FACU	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>82</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 42

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 43  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55796 Long: -117.01857 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Lolium perenne</u>		1	N	FAC	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Hordeum murinum</u>		1	N	FACU	
3. <u>Spergularia bocconi</u>		1	N	FACW	
4. <u>Psilocarphus brevissimus</u>		1	N	FACW	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					4 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>96</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. It does support one vernal pool plant indicator species (Psilocarphus brevissimus).					



## SOIL

Sampling Point: 43

VP-43

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 44  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55791 Long: -117.01862 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>30</u> (A) <u>97</u> (B) Prevalence Index = B/A = <u>3.23</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Lolium perenne</u>		<u>20</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Hordeum murinum</u>		<u>8</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Melilotus indicus</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
5. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>70</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 44

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 45  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55797 Long: -117.01864 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u> )</b>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Bromus hordeaceus</u>	<u>3</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Lolium perenne</u>	<u>2</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Lythrum hyssopifolia</u>	<u>2</u>	<u>Y</u>	<u>OBL</u>	
4. <u>      </u>				
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
			<u>7</u> = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
			<u>0</u> = Total Cover	
% Bare Ground in Herb Stratum <u>93</u> % Cover of Biotic Crust <u>0</u>				

Remarks: This feature supports hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin. The sample area does support a vernal pool fauna indicator species (San Diego fairy shrimp). Leaf litter is also present.



## SOIL

Sampling Point: 45

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 3/2	95	10YR 4/4	5	C	M	clay	
6-18	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
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Remarks: redox observed in top 6"

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and the presence of hydrophytic vegetation indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 46  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55789 Long: -117.01857 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>17</u> x 4 = <u>68</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>20</u> (A) <u>76</u> (B) Prevalence Index = B/A = <u>3.8</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Hordeum murinum</u>		15	Y	FACU	
2. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
3. <u>Spergularia bocconi</u>		1	N	FACW	
4. <u>Sonchus oleraceus</u>		1	N	UPL	
5. <u>Erodium botrys</u>		1	N	FACU	
6. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>83</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 46

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 47  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55807 Long: -117.01875 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>6</u> x 4 = <u>24</u> UPL species <u>6</u> x 5 = <u>30</u> Column Totals: <u>14</u> (A) <u>57</u> (B) Prevalence Index = B/A = <u>4.1</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Bromus madritensis</u>	<u>3</u>	<u>Y</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
3. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
4. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
5. <u>Chrysanthemum coronarium</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>Hordeum murinum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>Bromus hordeaceus</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>	
8. <u>Melilotus indicus</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
<u>14</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>				
<u>0</u> = Total Cover				
% Bare Ground in Herb Stratum <u>86</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 47

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 48  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55803 Long: -117.01879 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		3	Y	OBL	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Spergularia bocconi</u>		2	Y	FACW	
3. <u>Psilocarphus brevissimus</u>		2	Y	FACW	
4. <u>Chrysanthemum coronarium</u>		1	N	UPL	
5. <u>Hordeum murinum</u>		1	N	FACU	
6. <u>Erodium botrys</u>		1	N	OBL	
7. <u>Plantago elongata</u>		1	N	FACW	
8. <u>Deinandra fasciculata</u>		1	N	FACU	
12 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
0 = Total Cover					
% Bare Ground in Herb Stratum <u>90</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 48

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 49  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55467 Long: -117.02501 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>				
5. <u>      </u>				
= Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Plagiobothrys acanthocarpus</u>	15	Y	OBL	
2. <u>Psilocarphus brevissimus</u>	20	Y	FACW	
3. <u>Spergularia bocconi</u>	1	N	FACW	
4. <u>Erodium botrys</u>	1	N	FACU	
5. <u>Deinandra fasciculata</u>	1	N	FACU	
6. <u>Sonchus asper</u>	1	N	FAC	
7. <u>Matricaria discoidea</u>	1	N	FACU	
8. <u>Lepidium nitidum</u>	1	N	FAC	
38 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				
2. <u>      </u>				
0 = Total Cover				
% Bare Ground in Herb Stratum <u>62</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 49

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>8</u>	

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 50  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55597 Long: -117.02615 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>16</u> x 5 = <u>80</u> Column Totals: <u>19</u> (A) <u>91</u> (B) Prevalence Index = B/A = <u>4.8</u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Chrysanthemum coronarium</u>		<u>15</u>	<u>Y</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>		
3. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>		
4. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>		
5. <u>Bromus madritensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>		
6. <u>      </u>						
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>81</u>		% Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 50

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 51  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55599 Long: -117.02616 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>13</u> x 5 = <u>65</u> Column Totals: <u>17</u> (A) <u>80</u> (B) Prevalence Index = B/A = <u>4.7</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Chrysanthemum coronarium</u>		12	Y	UPL	
2. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
3. <u>Lepidium nitidum</u>		1	N	FAC	
4. <u>Erodium botrys</u>		1	N	FACU	
5. <u>Matricaria discoidea</u>		1	N	FACU	
6. <u>Sonchus oleraceus</u>		1	N	UPL	
7. <u>      </u>					
8. <u>      </u>					
					17 = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>83</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 51

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 52  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55602 Long: -117.02622 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>      </u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>15</u> x 5 = <u>75</u> Column Totals: <u>19</u> (A) <u>87</u> (B) Prevalence Index = B/A = <u>4.6</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Chrysanthemum coronarium</u>		15	Y	UPL	
2. <u>Lepidium nitidum</u>		1	N	FACW	
3. <u>Psilocarphus brevissimus</u>		1	N	FACW	
4. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
5. <u>Deinandra fasciculata</u>		1	N	FACU	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
19 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
0 = Total Cover					
% Bare Ground in Herb Stratum <u>81</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 52

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 53  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55643 Long: -117.02687 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>11</u> x 5 = <u>55</u> Column Totals: <u>15</u> (A) <u>70</u> (B) Prevalence Index = B/A = <u>4.7</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Chrysanthemum coronarium</u>		<u>10</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Mesembryanthemum nodiflorum</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
3. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
4. <u>Erodium cicutarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
5. <u>Salsola tragus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>85</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 53

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 26, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 54  
 Investigator(s): Beth Procsal, Mark Dodero Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55506 Long: -117.02481 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		1	N	FACW	
2. <u>Lilaea scilloides</u>		1	N	OBL	
3. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
4. <u>Spergularia bocconi</u>		2	N	FACW	
5. <u>Rumex crispus</u>		12	Y	FAC	
6. <u>Erodium botrys</u>		1	N	FACU	
7. <u>      </u>					
8. <u>      </u>					
					18 = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>82</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Lilaea scilloides). Leaf litter present.



## SOIL

Sampling Point: 54

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 26, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 55  
 Investigator(s): Beth Procsal, Mark Dodero Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55513 Long: -117.02487 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? Yes ☐ Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? Yes ☐ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
3. _____					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. _____					
5. _____					
= Total Cover					
<b>Herb Stratum</b> (Plot size: _____ )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. <u>Rumex crispus</u>		<u>10</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Erodium cicutarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Chrysanthemum coronarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
5. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
7. _____					
8. _____					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____					
= Total Cover					
% Bare Ground in Herb Stratum <u>85</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 55

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/1	95	7.5YR 5/6	5	C	M/RC	sandy loam	
3-18	10YR 5/2	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 26, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 56  
 Investigator(s): Beth Procsal, Mark Dodero Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55506 Long: -117.02481 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		1	N	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lilaea scilloides</u>		2	N	FACU	
3. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
4. <u>Spergularia bocconi</u>		5	Y	FACW	
5. <u>Rumex crispus</u>		6	Y	FAC	
6. <u>Matricaria discoidea</u>		1	N	FACU	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>84</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it supports three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Lilaea scilloides).



## SOIL

Sampling Point: 56

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/1	95	7.5YR 4/6	5	C	M/RC	clay	
6-18	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: depleted matrix observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 26, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 57  
 Investigator(s): Beth Procsal, Mark Dodero Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55506 Long: -117.02487 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u> )</b> 1. <u>Psilocarphus brevissimus</u> 1 N FACW 2. <u>Rumex crispus</u> 10 Y FAC 3. <u>Spergularia bocconi</u> 1 N FACW 4. <u>Matricaria discoidea</u> 1 N FACU 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> <u>13</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b> 1. <u>none</u> 2. <u>      </u> <u>0</u> = Total Cover				
% Bare Ground in Herb Stratum <u>82</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the sample area consisting mainly of hydrophytic vegetation, it supports one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 57

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/2	95	7.5YR 5/6	5	C	M/RC	clay	
4-18	10YR 4/2	100					clay	dark

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <u>X</u> No _____
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Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 26, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 58  
 Investigator(s): Beth Procsal, Mark Doderio Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55526 Long: -117.02482 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Psilocarphus brevissimus</u>	1	N	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Rumex crispus</u>	25	Y	FAC	
3. <u>Lolium perenne</u>	1	N	FAC	
4. <u>Lythrum hyssopifolia</u>	1	N	OBL	
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
			28 = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
			0 = Total Cover	
% Bare Ground in Herb Stratum <u>82</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it supports one vernal pool plant indicator species (*Psilocarphus brevissimus*).



## SOIL

Sampling Point: 58

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	98	5YR 4/6	2	C	RC/M	clay	
5-18	10YR 3/2	95	5YR 4/4	5	C	M	clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: redox dark surface observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 59  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55491 Long: -117.02434 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>13</u> x 4 = <u>52</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>17</u> (A) <u>66</u> (B) Prevalence Index = B/A = <u>3.9</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Hordeum murinum</u>		<u>10</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Malva parviflora</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
5. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
6. <u>Bromus madritensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>Mesembryanthemum nodiflorum</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>83</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 59

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 60  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55488 Long: -117.02417 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>4</u> x 3 = <u>12</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>14</u> (A) <u>52</u> (B) Prevalence Index = B/A = <u>3.7</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Matricaria discoidea</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
2. <u>Lolium perenne</u>		<u>2</u>	<u>N</u>	<u>FAC</u>	
3. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
4. <u>Hordeum murinum</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Erodium botrys</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
6. <u>Sonchus asper</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
7. <u>Salsola tragus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
8. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>86</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 60

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks, biotic crusts, and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 61  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55486 Long: -117.02413 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>7</u> x 4 = <u>28</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>10</u> (A) <u>37</u> (B) Prevalence Index = B/A = <u>3.7</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Salsola tragus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
4. <u>Hordeum murinum</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Mesembryanthemum nodiflorum</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Sonchus oleraceus</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>      </u>					
8. <u>      </u>					
					<u>10</u> = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>90</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter present.



## SOIL

Sampling Point: 61

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 64  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55483 Long: -117.02407 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>16</u> x 4 = <u>64</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>18</u> (A) <u>72</u> (B) Prevalence Index = B/A = <u>4</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>		15	Y	FACU	
2. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
3. <u>Sonchus oleraceus</u>		1	N	UPL	
4. <u>Lolium perenne</u>		1	N	FAC	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>82</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 64

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks, biotic crusts, and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 65  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55483 Long: -117.02403 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>12</u> x 4 = <u>48</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>14</u> (A) <u>54</u> (B) Prevalence Index = B/A = <u>3.9</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>		10	Y	FACU	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
3. <u>Lepidium nitidum</u>		1	N	FAC	
4. <u>Lolium perenne</u>		1	N	FAC	
5. <u>Salsola tragus</u>		1	N	FACU	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					14 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>86</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 65

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and biotic crusts, and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 66  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55481 Long: -117.02404 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Plagiobothrys acanthocarpus</u> 1 N OBL 2. <u>Lythrum hyssopifolia</u> 5 Y OBL 3. <u>Spergularia bocconi</u> 3 Y FACW 4. <u>Hordeum murinum</u> 2 N FACU 5. <u>Juncus bufonius</u> 1 N FACW 6. <u>Lolium perenne</u> 1 N FAC 7. <u>      </u> 8. <u>      </u> 13 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>87</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (*Plagiobothrys acanthocarpus*). Leaf litter is present in basin.



## SOIL

Sampling Point: 66

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic cracking indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 67  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55477 Long: -117.02391 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>2</u> x 1 = <u>2</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>8</u> (A) <u>20</u> (B) Prevalence Index = B/A = <u>2.5</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Spergularia bocconi</u>		<u>3</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
4. <u>Hordeum murinum</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>92</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 67

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/1	95	5YR 4/4	5	C	RC	Sandy Clay	
1-5	10YR 4/2	70					Sandy Clay	No Redox
1-5	10YR 4/3	30					Sandy Clay	Multiple matrix colors
5-18	10YR 4/3	100					Sandy Clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: Redox features observed in top 1 inch, insufficient to meet a hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 68  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55468 Long: -117.02359 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>12</u> x 3 = <u>36</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>20</u> (A) <u>57</u> (B) Prevalence Index = B/A = <u>2.9</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lepidium latipes</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
4. <u>Hordeum marinum</u>		<u>11</u>	<u>Y</u>	<u>FAC</u>	
5. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
7. <u>Spergularia bocconi</u>		<u>2</u>	<u>N</u>	<u>FACW</u>	
8. <u>Mesembryanthemum nodiflorum</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>80</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area supports a predominance of hydrophytic vegetation. It also support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 68

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	98	7.5YR 4/4	2	C	M/RC	sandy clay	redox
3-18	10YR 4/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 69  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55461 Long: -117.02337 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>x</u>
Hydric Soil Present?	Yes <u>      </u> No <u>x</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>6</u> x 4 = <u>24</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>11</u> (A) <u>35</u> (B) Prevalence Index = B/A = <u>3.18</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Lepidium latipes</u>		<u>2</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
4. <u>Hordeum murinum</u>		<u>4</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Erodium botrys</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Sonchus asper</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
7. <u>      </u>					
8. <u>      </u>					
					<u>11</u> = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>89</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The pool does not consists predominately of hydrophytic vegetation, but does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 69

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 3/2	100					sandy clay	no redox
5-18	10YR 4/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>x</u>
--	--

Remarks: No hydric soil indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 70  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55455 Long: -117.02327 Datum: NAD83  
 Soil Map Unit Name: None NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>7</u> (A) <u>19</u> (B) Prevalence Index = B/A = <u>2.7</u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Lepidium latipes</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>		
3. <u>Lamarckia aurea</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>		
4. <u>Hordeum murinum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>		
5. <u>Spergularia bocconi</u>		<u>2</u>	<u>Y</u>	<u>FACW</u>		
6. <u>Bromus hordeaceus</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>		
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>93</u> % Cover of Biotic Crust <u>      </u>						

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 70

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 3/2	95	7.5YR 5/6	5	C	M/RC	clay	
5-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: meets redox dark surface indicator

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 71  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55452 Long: -117.02311 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology X naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>x</u>
Hydric Soil Present?	Yes <u>      </u> No <u>x</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>9</u> x 4 = <u>36</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>13</u> (A) <u>44</u> (B) Prevalence Index = B/A = <u>3.4</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
3. <u>Erodium botrys</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
4. <u>Hordeum murinum</u>		<u>7</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Spergularia bocconi</u>		<u>2</u>	<u>N</u>	<u>FACW</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>87</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not consist of a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 71

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 72  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55445 Long: -117.02290 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>7</u> x 2 = <u>14</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>7</u> x 4 = <u>28</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>17</u> (A) <u>55</u> (B) Prevalence Index = B/A = <u>3.2</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Lepidium latipes</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
3. <u>Psilocarphus brevissimus</u>		<u>5</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Erodium botrys</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
5. <u>Hordeum murinum</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Chrysanthemum coronarium</u>		<u>2</u>	<u>N</u>	<u>UPL</u>	
7. <u>Spergularia bocconi</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>83</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not consist predominately of hydrophytic vegetation, but does support one vernal pool plant indicator species (Psilocarphus brevissimus). Leaf litter and rocks are present within basin.



## SOIL

Sampling Point: 72

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 73  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55445 Long: -117.02284 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>7</u> x 2 = <u>14</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>18</u> (A) <u>59</u> (B) Prevalence Index = B/A = <u>3.3</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Lepidium latipes</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
2. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>		
3. <u>Psilocarphus brevissimus</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>		
4. <u>Erodium botrys</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
5. <u>Hordeum murinum</u>	<u>3</u>	<u>N</u>	<u>FACU</u>		
6. <u>Chrysanthemum coronarium</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>		
7. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
8. <u>Sonchus asper</u>	<u>1</u>	<u>N</u>	<u>FAC</u>		
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>82</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus). Leaf litter present.



## SOIL

Sampling Point: 73

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 74  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55443 Long: -117.02281 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>7</u> x 2 = <u>14</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>6</u> x 4 = <u>24</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>14</u> (A) <u>39</u> (B) Prevalence Index = B/A = <u>2.8</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Spergularia bocconi</u>		<u>3</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Psilocarphus brevissimus</u>		<u>2</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Lepidium latipes</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
7. <u>Mesembryanthemum nodiflorum</u>		<u>4</u>	<u>Y</u>	<u>FACU</u>	
8. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
					<u>14</u> = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>86</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata). Leaf litter present.



## SOIL

Sampling Point: 74

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	100					clay loam	no redox
3-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 75  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55490 Long: -117.02284 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>6</u> x 3 = <u>18</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>12</u> (A) <u>40</u> (B) Prevalence Index = B/A = <u>3.3</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
4. <u>Lolium perenne</u>		<u>5</u>	<u>Y</u>	<u>FAC</u>	
5. <u>Bromus madritensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>Erodium botrys</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
					<u>12</u>
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					<u>0</u>
% Bare Ground in Herb Stratum <u>88</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is also present within basin.



## SOIL

Sampling Point: 75

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 76  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55521 Long: -117.02340 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>2</u> x 1 = <u>2</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>3</u> x 3 = <u>9</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>12</u> (A) <u>33</u> (B) Prevalence Index = B/A = <u>2.75</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		<u>2</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
4. <u>Erodium botrys</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Lolium perenne</u>		<u>3</u>	<u>Y</u>	<u>FAC</u>	
6. <u>Hordeum murinum</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>	
7. <u>Spergularia bocconi</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
					<u>0</u> = Total Cover
% Bare Ground in Herb Stratum <u>88</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 76

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/2	90	5YR 4/6	10	C	PL	sandy clay	
2-18	10YR 3/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 77  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55901 Long: -117.01894 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Deinandra fasciculata</u> 1 N FACU 2. <u>Spergularia bocconi</u> 1 N FACW 3. <u>Matricaria discoidea</u> 2 N UPL 4. <u>Psilocarphus brevissimus</u> 4 Y FACW 5. <u>Plagiobothrys acanthocarpus</u> 1 N OBL 6. <u>Plantago elongata</u> 4 Y FACW 7. <u>Mesembryanthemum nodiflorum</u> 1 N FACU 8. <u>Erodium botrys</u> 1 N FACU 15 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>85</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Plantago elongata, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 77

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10Yr 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Evidence of surface water present at the time of the delineation indicates that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 78  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55884 Long: -117.01886 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83%</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b> 1. <u>      </u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u> )</b> 1. <u>Spergularia bocconi</u> 2 Y FACW 2. <u>Plagiobothrys acanthocarpus</u> 1 Y OBL 3. <u>Psilocarphus brevissimus</u> 1 Y FACW 4. <u>Plantago elongata</u> 1 Y FACW 5. <u>Crassula aquatica</u> 1 Y OBL 6. <u>Erodium botrys</u> 1 Y FACU 7. <u>      </u> 8. <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b> 1. <u>      </u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>93</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Crassula aquatica, and Plantago elongata).



## SOIL

Sampling Point: 78

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/2	95	7.5YR 5/5	5	C	RC	clay	redox in top 4"
4-18	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input checked="" type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <u>X</u> No _____
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Remarks: redox depressions observed

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 79  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55849 Long: -117.01889 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		<u>9</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>		<u>2</u>	<u>N</u>	<u>OBL</u>	
3. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
4. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
5. <u>Deinandra fasciculata</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Hypochaeris glabra</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>85</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 79

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 80  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55844 Long: -117.01877 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		18	Y	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
3. <u>Lythrum hyssopifolia</u>		1	N	OBL	
4. <u>Bromus hordeaceus</u>		1	N	FACU	
5. <u>Plantago elongata</u>		1	N	FACW	
6. <u>Erodium botrys</u>		1	N	FACU	
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>77</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 80

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/2	100					sandy clay	no redox
2-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 81  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55857 Long: -117.01870 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		1	Y	FACW	
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>99</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic.



## SOIL

Sampling Point: 81

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 82  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55857 Long: -117.01870 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		1	N	FACW	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
3. <u>Salsola tragus</u>		1	N	FACU	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					3 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>97</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 82

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 83  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55894 Long: -117.01899 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>7</u> x 2 = <u>14</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>11</u> (A) <u>28</u> (B) Prevalence Index = B/A = <u>2.5</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Spergularia bocconi</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Matricaria discoidea</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Psilocarphus brevissimus</u>		<u>5</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
6. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>89</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Plantago elongata, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 83

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/2	95	7.5YR 4/6	5	C	RC	clay	
2-18	10YR 4/3	100						

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: Redox features (oxidized rizosphere) present at 0-2" do not meet hydric soil criteria. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 84  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55890 Long: -117.01887 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Plantago elongata</u> 1 N FACW 2. <u>Psilocarphus brevissimus</u> 3 Y FACW 3. <u>Plagiobothrys acanthocarpus</u> 3 Y OBL 4. <u>Lepidium nitidum</u> 1 N FAC 5. <u>Crassula aquatica</u> 1 N OBL 6. <u>Spergularia bocconi</u> 1 N FACW 7. <u>Erodium botrys</u> 1 N FACU 8. <u>      </u> 11 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 0 = Total Cover				
% Bare Ground in Herb Stratum <u>91</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Plantago elongata and Crassula aquatica).



## SOIL

Sampling Point: 84

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 85  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55852 Long: -117.01911 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>x</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80%</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. <u>Spergularia bocconi</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>		
3. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>		
4. <u>Crassula aquatica</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>		
5. <u>Erodium botrys</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>		
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>95</u>		% Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area also supports a predominance of hydrophytic vegetation and supports three vernal pool plant indicator species (Psilocarphus brevissimus, Crassula aquatica, and Plagiobothrys acanthocarpus) and is known to support San Diego fairy shrimp.



## SOIL

Sampling Point: 85

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 3/2	100					sandy clay	no redox
1-18	7.5YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 86  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55933 Long: -117.01897 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<1	N	FACW	
2. <u>Plantago elongata</u>		<1	N	FACW	
3. <u>Hordeum murinum</u>		<1	N	FACU	
4. <u>Spergularia bocconi</u>		<1	N	FACW	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
0 = Total Cover					
% Bare Ground in Herb Stratum <u>98</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. It does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).



## SOIL

Sampling Point: 86

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply) <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Evidence of surface water present at the time of the delineation indicates that the area supports ponds waters and wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 87  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55891 Long: -117.01880 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>57</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>8</u> (A) <u>24</u> (B) Prevalence Index = B/A = <u>3</u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Plantago elongata</u> 1 Y FACW 2. <u>Hordeum murinum</u> 2 Y FACU 3. <u>Matricaria discoidea</u> 1 Y FACU 4. <u>Spergularia bocconi</u> 1 Y FACW 5. <u>Psilocarphus brevissimus</u> 1 Y FACW 6. <u>Erodium botrys</u> 1 Y FACU 7. <u>Lepidium latipes</u> 1 Y FACW 8. <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>92</u> % Cover of Biotic Crust <u>0</u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).



## SOIL

Sampling Point: 87

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/1	100					clay	
4-8	10YR 5/2	95	7.5YR 4/3	5	C	M	clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>8</u>	Hydric Soil Present?    Yes <u>X</u> No <u>      </u>
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Remarks: redox features observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> Water Table Present?    Yes <u>      </u> No <u>      </u> Depth (inches): <u>      </u> Saturation Present?    Yes <u>      </u> No <u>      </u> Depth (inches): <u>      </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u>      </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 88  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55854 Long: -117.01913 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. <u>                    </u>					
3. <u>                    </u>					
4. <u>                    </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>                    </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>                    </u> Multiply by: <u>                    </u> OBL species <u>                    </u> x 1 = <u>                    </u> FACW species <u>                    </u> x 2 = <u>                    </u> FAC species <u>                    </u> x 3 = <u>                    </u> FACU species <u>                    </u> x 4 = <u>                    </u> UPL species <u>                    </u> x 5 = <u>                    </u> Column Totals: <u>                    </u> (A) <u>                    </u> (B) Prevalence Index = B/A = <u>                    </u>
2. <u>                    </u>					
3. <u>                    </u>					
4. <u>                    </u>					
5. <u>                    </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>                    </u> )					
1. <u>Psilocarphus brevissimus</u>		25	Y	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plantago elongata</u>		1	N	UPL	
3. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
4. <u>Deinandra fasciculata</u>		1	N	OBL	
5. <u>Erodium botrys</u>		1	N	FACU	
6. <u>Spergularia bocconi</u>		5	N	FACW	
7. <u>                    </u>					
8. <u>                    </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>                    </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>                    </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>66</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area also supports a predominance of hydrophytic vegetation and supports three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus). Leaf litter is present within basin.



## SOIL

Sampling Point: 88

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/2	100					sandy clay	no redox
3-18	10YR 4/4	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 89  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55839 Long: -117.01916 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				= Total Cover
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>2</u> x 1 = <u>2</u> FACW species <u>8</u> x 2 = <u>16</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>13</u> (A) <u>31</u> (B) Prevalence Index = B/A = <u>2.0</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
				= Total Cover
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Psilocarphus brevissimus</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Chrysanthemum coronarium</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
3. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
4. <u>Crassula aquatica</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
5. <u>Erodium botrys</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Matricaria discoidea</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>Spergularia bocconi</u>	<u>2</u>	<u>Y</u>	<u>FACW</u>	
8. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
				= Total Cover
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
				= Total Cover
% Bare Ground in Herb Stratum <u>87</u>		% Cover of Biotic Crust <u>0</u>		

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Plantago elongata, and Crassula aquatica).



## SOIL

Sampling Point: 89

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 3/2	97	5YR 4/6	3	C	RC	sandy clay	
1-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: Some redox features observed, but not enough to meet a hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 90  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55948 Long: -117.01905 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>22</u> x 4 = <u>88</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>27</u> (A) <u>100</u> (B) Prevalence Index = B/A = <u>3.7</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>		<u>20</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Psilocarphus brevissimus</u>		<u>3</u>	<u>N</u>	<u>FACW</u>	
3. <u>Bromus hordeaceus</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
4. <u>Bromus madritensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
5. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>73</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 90

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 19, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 91  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55943 Long: -117.01904 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>6</u> (A) <u>22</u> (B) Prevalence Index = B/A = <u>3.7</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
2. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Hordeum murinum</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Salsola tragus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
6 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
0 = Total Cover					
% Bare Ground in Herb Stratum <u>94</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not have a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 91

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 5/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <u>x</u>
Depth (inches): _____	

Remarks: no hydric soils indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <u>x</u> No _____ Depth (inches): <u>0</u>	Yes <u>X</u> No _____
Water Table Present?	Yes <u>x</u> No _____ Depth (inches): <u>0</u>	
Saturation Present? (includes capillary fringe)	Yes <u>x</u> No _____ Depth (inches): <u>0</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Evidence of surface water present at the time of the delineation indicates that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 92  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55938 Long: -117.01903 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>4</u> (A) <u>13</u> (B) Prevalence Index = B/A = <u>3.25</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Spergularia bocconi</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Hordeum murinum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Schismus barbatus</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>99</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 92

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 93  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55938 Long: -117.01900 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>5</u> (A) <u>17</u> (B) Prevalence Index = B/A = <u>3.4</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Erodium botrys</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Hordeum murinum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Schismus barbatus</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
5. <u>Plantago elongata</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>95</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).



## SOIL

Sampling Point: 93

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 94  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55945 Long: -117.01904 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>12</u> x 4 = <u>48</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>17</u> (A) <u>61</u> (B) Prevalence Index = B/A = <u>3.6</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>		
2. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
3. <u>Erodium botrys</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
4. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>		
5. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
6. <u>Spergularia bocconi</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
7. <u>Schismus barbatus</u>	<u>1</u>	<u>N</u>	<u>UPL</u>		
8. <u>Sonchus asper</u>	<u>1</u>	<u>N</u>	<u>FAC</u>		
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>      </u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>83</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 94

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 95  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55930 Long: -117.01895 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
2. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Spergularia bocconi</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>96</u> % Cover of Biotic Crust <u>0</u>					
<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>					

Remarks: Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).



## SOIL

Sampling Point: 95

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 96  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55926 Long: -117.01899 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>0</u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>2</u> (A) <u>8</u> (B) Prevalence Index = B/A = <u>4.0</u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Schismus barbatus</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>		
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>98</u>		% Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 96

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 97  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55929 Long: -117.01903 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>7</u> (A) <u>24</u> (B) Prevalence Index = B/A = <u>3.4</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Matricaria discoidea</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
2. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Hordeum murinum</u>		<u>4</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Spergularia bocconi</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>94</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not predominately support hydrophytic vegetation. It does support one vernal pool plant indicator species (Plantago elongata).



## SOIL

Sampling Point: 97

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 99  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55922 Long: -117.01897 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B)  Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					0 = Total Cover
% Bare Ground in Herb Stratum <u>100</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool plant indicator species or vegetation of any kind were present within the basin.



## SOIL

Sampling Point: 99

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 100  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55921 Long: -117.01898 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Nonel

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals: <u>17</u> (A) <u>62</u> (B) Prevalence Index = B/A = <u>3.6</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Hordeum murinum</u>		10	Y	FACU	
2. <u>Spergularia bocconi</u>		2	N	FACW	
3. <u>Chrysanthemum coronarium</u>		2	N	UPL	
4. <u>Psilocarphus brevissimus</u>		1	N	FACW	
5. <u>Erodium cicutarium</u>		1	N	UPL	
6. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>83</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not predominately support hydrophytic vegetation. It does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 100

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 101  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55921 Long: -117.01898 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>11</u> (A) <u>38</u> (B) Prevalence Index = B/A = <u>3.5</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Hordeum murinum</u>		5	Y	FACU	
2. <u>Spergularia bocconi</u>		1	Y	FACW	
3. <u>Mesembryanthemum nodiflorum</u>		1	Y	FACU	
4. <u>Psilocarphus brevissimus</u>		1	Y	FACW	
5. <u>Matricaria discoidea</u>		1	Y	FACU	
6. <u>Plantago elongata</u>		1	Y	FACW	
7. <u>Salsola tragus</u>		1	Y	FACU	
8. <u>      </u>					
					11
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>89</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not have a prevalence of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plantago elongata and Psilocarphus brevissimus).



## SOIL

Sampling Point: 101

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  x  </u>
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Remarks: no hydric soils indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>  X  </u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>  X  </u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 102  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55888 Long: -117.01900 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>23</u> x 2 = <u>46</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>33</u> (A) <u>84</u> (B) Prevalence Index = B/A = <u>2.5</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Hordeum murinum</u>	<u>8</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Spergularia bocconi</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
3. <u>Chrysanthemum coronarium</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Psilocarphus brevissimus</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
6. <u>Plantago elongata</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
7. <u>Lepidium latipes</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
8. <u>      </u>				
<u>33</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>70</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Plantago elongata, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 102

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 4/3	100					sandy clay	no redox
12-18	10YR 4/3	98	7.5YR 4/4	2	C	M	sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: redox features observed below 12 in, but soils do not meet hydric soil indicators. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 103  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55867 Long: -117.01920 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		20	Y	FACW	
2. <u>Deinandra fasciculata</u>		2	N	FACU	
3. <u>Plagiobothrys acanthocarpus</u>		2	N	OBL	
4. <u>Hordeum murinum</u>		1	N	FACU	
5. <u>Spergularia bocconi</u>		1	N	FACW	
6. <u>Crassula aquatica</u>		1	N	OBL	
7. <u>Plantago elongata</u>		1	N	FACW	
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>72</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Crassula aquatica, and Plantago elongata).



## SOIL

Sampling Point: 103

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/2						sandy clay	no redox
3-18	10YR 4/4						sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No hydric soil indicators observed; organic matter found throughout soil profile due to shrink/swell cracks (color 10YR 2/2). However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 104  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55860 Long: -117.01913 Datum: NAD83  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation X, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Yes \_\_\_\_\_ Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil X, or Hydrology \_\_\_\_\_ naturally problematic? Yes \_\_\_\_\_ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. _____				
3. _____				
4. _____				
				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
_____ = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: _____)</b> 1. <u>none</u> 2. _____ 3. _____ 4. _____ 5. _____ _____ = Total Cover				
<b>Herb Stratum (Plot size: _____)</b> 1. <u>Psilocarphus brevissimus</u> 20 Y FACW 2. <u>Deinandra fasciculata</u> 2 N FACU 3. <u>Plagiobothrys acanthocarpus</u> 2 N OBL 4. <u>Spergularia bocconi</u> 10 Y FACW 5. <u>Erodium botrys</u> 1 N FACU 6. <u>Lolium perenne</u> 5 N FAC 7. <u>Plantago elongata</u> 1 N FACW 8. <u>Hordeum murinum</u> 4 N FACU 45 = Total Cover				
<b>Woody Vine Stratum (Plot size: _____)</b> 1. <u>none</u> 2. _____ _____ = Total Cover				
% Bare Ground in Herb Stratum <u>55</u> % Cover of Biotic Crust <u>0</u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% Prevalence Index is ≤3.0 <sup>1</sup> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 104

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/2						sandy clay	no redox
3-18	10YR 4/4						sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: no hydric soil indicators observed; organic matter found throughout soil profile due to shrink/swell cracks (color = 10YR 2/2). However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 105  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55853 Long: -117.01868 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>2</u> (A) <u>8</u> (B) Prevalence Index = B/A = <u>4</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Matricaria discoidea</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>98</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 105

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 106  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55835 Long: -117.01871 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology X naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>71</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Matricaria discoidea</u>		1	Y	FACU	
2. <u>Psilocarphus brevissimus</u>		2	Y	FACW	
3. <u>Lythrum hyssopifolia</u>		1	Y	OBL	
4. <u>Plantago elongata</u>		1	Y	FACW	
5. <u>Plagiobothrys acanthocarpus</u>		1	Y	OBL	
6. <u>Hordeum murinum</u>		1	Y	FACU	
7. <u>Spergularia bocconi</u>		1	Y	FACW	
8. <u>      </u>					
		8	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
		0	= Total Cover		
% Bare Ground in Herb Stratum <u>92</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area supports a predominance of hydrophytic vegetation, and it also supports three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 106

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/2	100					sandy clay	no redox
3-18	10Yr 4/4	10					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: no hydric soil indicators observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego, CA Sampling Date: April 11, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 107  
 Investigator(s): Beth Procsal, Kayo Valenti Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55660 Long: -117.02716 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>9</u> x 4 = <u>36</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>13</u> (A) <u>52</u> (B) Prevalence Index = B/A = <u>4.0</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Sonchus asper</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
2. <u>Salsola tragus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
4. <u>Chrysanthemum coronarium</u>		<u>2</u>	<u>N</u>	<u>UPL</u>	
5. <u>Mesembryanthemum nodiflorum</u>		<u>8</u>	<u>Y</u>	<u>FACU</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>89</u>		% Cover of Biotic Crust <u>      </u>			

Remarks:



## SOIL

Sampling Point: 107

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports hydrophytic vegetation. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 108  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55949 Long: -117.01899 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>6</u> x 2 = <u>12</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>11</u> (A) <u>37</u> (B) Prevalence Index = B/A = <u>3.4</u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
						= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Psilocarphus brevissimus</u>		<u>5</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Hordeum murinum</u>		<u>4</u>	<u>Y</u>	<u>FACU</u>		
3. <u>Schismus barbatus</u>		<u>1</u>	<u>N</u>	<u>UPL</u>		
4. <u>Salsola tragus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>		
5. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>		
6. <u>      </u>						
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>89</u> % Cover of Biotic Crust <u>0</u>						

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not predominately support hydrophytic vegetation. It does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).



## SOIL

Sampling Point: 108

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 109  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55893 Long: -117.01896 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u> )</b>				
1. <u>Plantago elongata</u>	2	Y	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Matricaria discoidea</u>	1	N	FACU	
3. <u>Psilocarphus brevissimus</u>	5	Y	FACW	
4. <u>Mesembryanthemum nodiflorum</u>	2	Y	FACU	
5. <u>Plagiobothrys acanthocarpus</u>	1	N	OBL	
6. <u>Deinandra fasciculata</u>	1	N	FACU	
7. <u>      </u>				
8. <u>      </u>				
			12 = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
			0 = Total Cover	
% Bare Ground in Herb Stratum <u>88</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata). Last year's Psilocarphus brevissimus thatch is present.



## SOIL

Sampling Point: 109

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					clay loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: The first 1" of soil has redox features 1% (oxidized rizosphere), but this does not meet a hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 110  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55895 Long: -117.01867 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Psilocarphus brevissimus</u> 1 N FACW 2. <u>Lythrum hyssopifolia</u> 1 N OBL 3. <u>Chrysanthemum coronarium</u> 1 N UPL 4. <u>Plagiobothrys acanthocarpus</u> 1 N OBL 5. <u>Plantago elongata</u> 1 N FACW 6. <u>Anagallis arvensis</u> 30 Y FAC 7. <u>Spergularia bocconi</u> 5 N FACW 8. <u>Rumex crispus</u> 3 N FAC 43 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 0 = Total Cover				
% Bare Ground in Herb Stratum <u>57</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata). Leaf litter present within basin.



## SOIL

Sampling Point: 110

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	7.5YR 4/2	100					sandy clay	
6-18	10YR 4/2	98	7.5YR 3/4	2	C	M	sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: redox concentrations of 7.5YR 4/6 observed in soil profile at 6-18" (4mm in size)

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 111  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55441 Long: -117.02396 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)	
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b>					
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>9</u> (A) <u>26</u> (B) Prevalence Index = B/A = <u>2.9</u>	
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
= Total Cover					
<b>Herb Stratum (Plot size: <u>      </u> )</b>					
1. <u>Psilocarphus brevissimus</u>	<u>3</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>		
3. <u>Bromus madritensis</u>	<u>1</u>	<u>N</u>	<u>UPL</u>		
4. <u>Erodium botrys</u>	<u>2</u>	<u>Y</u>	<u>FACU</u>		
5. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
6. <u>Bromus hordeaceus</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b>					
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>	
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>91</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus). Last year's leaf litter is present.



## SOIL

Sampling Point: 111

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/2	97	7.5YR 4/4	3	C	M/RC	clay	
4-18	10YR 3/2	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 112  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55444 Long: -117.02391 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		10	Y	FACW	
2. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
3. <u>Bromus madritensis</u>		1	N	UPL	
4. <u>Lepidium nitidum</u>		1	N	FAC	
5. <u>Hordeum murinum</u>		1	N	FACU	
6. <u>Lepidium latipes</u>		1	N	FACW	
7. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
8. <u>Plantago elongata</u>		1	N	FACW	
Woody Vine Stratum	(Plot size: <u>      </u> )				
1. <u>none</u>					
2. <u>      </u>					
					0 = Total Cover
% Bare Ground in Herb Stratum <u>83</u>		% Cover of Biotic Crust <u>0</u>			
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 112

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 6, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 113  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55437 Long: -117.02323 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>		
3. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>		
4. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>		
5. <u>Lolium perenne</u>		<u>10</u>	<u>Y</u>	<u>FAC</u>		
6. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>		
7. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>		
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>84</u>		% Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 113

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/2	97	7.5YR 4/4	3	C	M/RC	clay	
4-18	10YR 4/3	100					sandy clay	no redox here

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: July 9, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 114  
 Investigator(s): Beth Procsal, Mark Doderio Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55525 Long: -117.02469 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Rumex crispus</u>		<u>5</u>	<u>Y</u>	<u>FAC</u>	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
4 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
0 = Total Cover					
% Bare Ground in Herb Stratum <u>95</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 114

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 3/2	95	5YR 4/4	5	C	M	sandy clay	
6-18	10YR 4/3	99	5YR 4/4	1	C	M	sandy clay	other soil inclusions

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: redox dark surface indicator observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 4, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 115  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55835 Long: -117.01874 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>x</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>17</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>7</u> (A) <u>25</u> (B) Prevalence Index = B/A = <u>3.6</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>2</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Salsola tragus</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Deinandra fasciculata</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Bromus hordeaceus</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Bromus madritensis</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
6. <u>Matricaria discoidea</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>93</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. It does not support hydrophytic vegetation. It does contain one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 115

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/2	100					sandy clay	no redox
2-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: no hydric soil indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 116  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55659 Long: -117.02701 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>7</u> (A) <u>25</u> (B) Prevalence Index = B/A = <u>3.6</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Spergularia bocconi</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Erodium botrys</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Erodium moschatum</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Deinandra fasciculata</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Plantago elongata</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<u>7</u> = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>93</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plantago elongata).



## SOIL

Sampling Point: 116

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks and San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 117  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55604 Long: -117.02523 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>8</u> (A) <u>25</u> (B) Prevalence Index = B/A = <u>3.1</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Logfia gallica</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Spergularia bocconi</u>		<u>2</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Dittrichia graveolens</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
5. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
6. <u>Deinandra fasciculata</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>91</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 117

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 118  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.555228 Long: -117.023736 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
0 = Total Cover					
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 118

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>x</u>
--	--

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 119  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55520 Long: -117.02337 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. <u>Spergularia bocconi</u>		1	N	FACW		
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>98</u>		% Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 119

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 120  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55520 Long: -117.02315 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>29</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>8</u> (A) <u>26</u> (B) Prevalence Index = B/A = <u>3.25</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		1	Y	OBL	
2. <u>Spergularia bocconi</u>		2	Y	FACW	
3. <u>Hordeum murinum</u>		1	Y	FACU	
4. <u>Festuca myuros</u>		1	Y	FACU	
5. <u>Deinandra fasciculata</u>		1	Y	FACU	
6. <u>Bromus madritensis</u>		1	Y	UPL	
7. <u>Erodium botrys</u>		1	Y	FACU	
8. <u>      </u>					
8. <u>      </u>		8			
					= Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>92</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not predominately support hydrophytic vegetation. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 120

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	100					sandy clay	
5-18	7.5YR 4/4	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: no hydric soils indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks and immature fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 121  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55460 Long: -117.02333 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				Prevalence Index worksheet: Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>7</u> (A) <u>18</u> (B) Prevalence Index = B/A = <u>2.6</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
Herb Stratum	(Plot size: <u>      </u> )				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		1	Y	OBL	
2. <u>Plantago elongata</u>		2	Y	FACW	
3. <u>Lepidium nitidum</u>		1	Y	FAC	
4. <u>Hordeum murinum</u>		1	Y	FACU	
5. <u>Spergularia bocconi</u>		1	Y	FACW	
6. <u>Festuca myuros</u>		1	Y	FACU	
7. <u>      </u>					
8. <u>      </u>					
				7 = Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
				= Total Cover	
% Bare Ground in Herb Stratum <u>93</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Plantago elongata). Leaf litter is present in basin.



## SOIL

Sampling Point: 121

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	100					sandy clay	no redox
4-18	10YR 4/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crusts, and immature fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 123 HCP3150  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.558565 Long: -117.018741 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B)  Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
0 = Total Cover					
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool indicator species were present within the basin.



## SOIL

Sampling Point: 123 HCP3150

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, the evidence of surface soil cracks indicate that the area supports wetland hydrology. Additional fairy shrimp surveys were conducted in 2019/2020 wet season for pools that had immature fairy shrimp, and mature San Diego fairy shrimp were identified. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 124  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55861 Long: -117.01868 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>4</u> x 1 = <u>4</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>7</u> x 4 = <u>28</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>13</u> (A) <u>37</u> (B) Prevalence Index = B/A = <u>2.8</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Lythrum hyssopifolia</u>		<u>3</u>	<u>Y</u>	<u>OBL</u>	
4. <u>Matricaria discoidea</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Poa annua</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
6. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>Medicago polymorpha</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
8. <u>Bromus hordeaceus</u>		<u>4</u>	<u>Y</u>	<u>FACU</u>	
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>87</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Plantago elongata). Leaf litter is present in basin.



## SOIL

Sampling Point: 124

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks and immature fairy shrimp indicate that the area ponds water and supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 125  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55439 Long: -117.02278 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Lepidium latipes</u> 1 Y FACW 2. <u>Lepidium nitidum</u> 1 Y FAC 3. <u>Spergularia bocconi</u> 1 Y FACW 4. <u>Plantago elongata</u> 1 Y FACW 5. <u>Psilocarphus brevissimus</u> 1 Y FACW 6. <u>Lythrum hyssopifolia</u> 1 Y OBL 7. <u>      </u> 8. <u>      </u> 6 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>94</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plantago elongata and Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: 125

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 5/3	100					sandy loam	no redox
1-5	7.5 YR 4/3	100					clay	no redox
5-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of biotic crusts indicate that the area ponds water and supports wetland hydrology



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 126  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55439119030 Long: -117.02281730200 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		1	Y	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lepidium nitidum</u>		1	Y	FAC	
3. <u>Lepidium latipes</u>		1	Y	FACW	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					3 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>97</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample feature receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic.



## SOIL

Sampling Point: 126

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
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Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 127  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.554533 Long: -117.023189 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					0 = Total Cover
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool indicator species were present within the basin.



## SOIL

Sampling Point: 127

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 130  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55577 Long: -117.02519 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>0</u> x 5 = <u>      </u> Column Totals: <u>6</u> (A) <u>19</u> (B) Prevalence Index = B/A = <u>3.2</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Crassula aquatica</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>Deinandra fasciculata</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Spergularia bocconi</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Erodium botrys</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
5. <u>      </u>					
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>94</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not have a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Crassula aquatica). Leaf litter is present in basin.					



## SOIL

Sampling Point: 130

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth (inches): <u>6</u>	

Remarks: no hydric soils indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 131  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55806 Long: -117.01916 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>63</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>8</u> (A) <u>23</u> (B) Prevalence Index = B/A = <u>2.9</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Spergularia bocconi</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Crassula connata</u>	<u>1</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Erodium botrys</u>	<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Juncus bufonius</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>Y</u>	<u>OBL</u>	
6. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
7. <u>Logfia gallica</u>	<u>1</u>	<u>Y</u>	<u>UPL</u>	
8. <u>Matricaria discoidea</u>	<u>1</u>	<u>Y</u>	<u>FACU</u>	
<u>8</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>92</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: 131

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/3	100					sandy clay	no redox
2-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 132  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55946 Long: -117.01907 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology X naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>3</u> (A) <u>7</u> (B) Prevalence Index = B/A = <u>2.3</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Spergularia bocconi</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Hordeum murinum</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>96</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 132

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 135  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55943689900 Long: -117.01906725900 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology X naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>4</u> (A) <u>14</u> (B) Prevalence Index = B/A = <u>3.5</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Erodium cicutarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
5. <u>      </u>					
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>96</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 135

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks and immature fairmy shrimp indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 143  
 Investigator(s): Beth Procsal and Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55926500940 Long: -117.01911591700 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. <u>      </u>					
8. <u>      </u>					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
0 = Total Cover					
% Bare Ground in Herb Stratum <u>100</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool indicator species were present within the basin.



## SOIL

Sampling Point: \_143\_

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 149  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55922 Long: -117.01902 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>63</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>8</u> (A) <u>22</u> (B) Prevalence Index = B/A = <u>2.8</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plantago elongata</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Matricaria discoidea</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Glebionis coronaria</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
6. <u>Hordeum murinum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
7. <u>Lepidium latipes</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
8. <u>Spergularia bocconi</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>92</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Plantago elongata, and Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: 149

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 150  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55911 Long: -117.01862 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Lythrum hyssopifolia</u>	<u>1</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Rumex crispus</u>	<u>5</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>Y</u>	<u>OBL</u>	
5. <u>Plantago elongata</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
6. <u>Spergularia bocconi</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
7. <u>Bromus madritensis</u>	<u>1</u>	<u>Y</u>	<u>UPL</u>	
8. <u>      </u>				
			<u>11</u> = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>89</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 150

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 4/2	100					sandy clay	
8-18	10YR 5/2	99	10Yr 5/6	1	C	M	sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: redox features observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>2</u> Water Table Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> Saturation Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Evidence of surface water and biotic crusts at the time of the delineation and presence of Riverside fairy shrimp indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 151  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55881 Long: -117.01900 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
Herb Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Spergularia bocconi</u>	10	Y	FACW	
2. <u>Plagiobothrys acanthocarpus</u>	8	Y	OBL	
3. <u>Plantago elongata</u>	1	N	FACW	
4. <u>Matricaria discoidea</u>	1	N	FACU	
5. <u>Hordeum murinum</u>	1	N	FACU	
6. <u>Deinandra fasciculata</u>	1	N	FACU	
7. <u>Psilocarphus brevissimus</u>	1	N	FACW	
8. <u>      </u>				
			23 = Total Cover	
Woody Vine Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>77</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Plantago elongata). Leaf litter is present in basin.



## SOIL

Sampling Point: 151

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
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Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and presence of San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 152  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55868 Long: -117.01908 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>5</u> (A) <u>11</u> (B) Prevalence Index = B/A = <u>2.2</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Spergularia bocconi</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Deinandra fasciculata</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Plantago elongata</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>95</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Psilocarphus brevissimus, and Plantago elongata). Leaf litter is present in basin.



## SOIL

Sampling Point: 152

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/2	100					sandy clay	no redox
3-18	10YR 4/4	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> x
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks, biotic crusts, and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 153  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.558249 Long: -117.018740 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool indicator species were present within the basin.



## SOIL

Sampling Point: 153

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> X Depth (inches): _____	Yes <input checked="" type="checkbox"/> X No _____
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 154  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55803034650 Long: -117.01859957300 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>5</u> x 1 = <u>5</u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>17</u> (A) <u>53</u> (B) Prevalence Index = B/A = <u>3.1</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Mesembryanthemum nodiflorum</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Bromus diandrus</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
3. <u>Plagiobothrys acanthocarpus</u>		<u>5</u>	<u>Y</u>	<u>OBL</u>	
4. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
5. <u>Hordeum murinum</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
6. <u>Festuca perennis</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
7. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
8. <u>Glebionis coronaria</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>88</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not consist predominately of hydrophytic vegetation. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 154

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks, biotic crusts, and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 155  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55849 Long: -117.01857 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>2</u> x 1 = <u>2</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>10</u> (A) <u>32</u> (B) Prevalence Index = B/A = <u>3.2</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Hordeum murinum</u>	<u>2</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Plantago elongata</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Lythrum hyssopifolia</u>	<u>1</u>	<u>Y</u>	<u>OBL</u>	
6. <u>Erodium botrys</u>	<u>1</u>	<u>Y</u>	<u>FACU</u>	
7. <u>Glebionis coronaria</u>	<u>2</u>	<u>Y</u>	<u>UPL</u>	
8. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>Y</u>	<u>FACU</u>	
<u>10</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>				
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>90</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not predominately support hydrophytic vegetation. It does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Psilocarphus brevissimus, and Plantago elongata). Leaf litter is present in basin.



## SOIL

Sampling Point: 155

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crusts, and immature fairy shrimp indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 157  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55935 Long: -117.01903 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>5</u> (A) <u>20</u> (B) Prevalence Index = B/A = <u>4.0</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>Hordeum murinum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Erodium botrys</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Spergularia bocconi</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>95</u> % Cover of Biotic Crust <u>      </u>					
% Bare Ground in Woody Vine Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not predominately support hydrophytic vegetation. It does support one vernal pool plant indicator species (Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: 157

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 158  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.556689 Long: -117.027177 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool indicator species were present within the basin.



## SOIL

Sampling Point: 158

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 160  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557998 Long: -117.018563 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					0 = Total Cover
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. No ACOE vernal pool indicator species were present within the basin.



## SOIL

Sampling Point: 160

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 161  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55787 Long: -117.01859 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca perennis</u>		<u>40</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Hordeum murinum</u>		<u>10</u>	<u>N</u>	<u>FACU</u>	
3. <u>Bromus diandrus</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Medicago polymorpha</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>48</u> % Cover of Biotic Crust <u>      </u>					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 161

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 3/2	98	5Y4 4/4	2	C	RC	sandy clay	redox observed
1-18	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: redox observed in top layer (0-1"), but insufficient to meet hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance. Organic matter observed throughout.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and immature fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 162  
 Investigator(s): Beth Procsal, JR Sunberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55820138250 Long: -117.01872371900 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>11</u> (A) <u>34</u> (B) Prevalence Index = B/A = <u>3.1</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Matricaria discoidea</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Plantago elongata</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Bromus madritensis</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
6. <u>Hordeum murinum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
7. <u>Spergularia bocconi</u>		<u>2</u>	<u>Y</u>	<u>FACW</u>	
8. <u>Festuca myuros</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>89</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Psilocarphus brevissimus, and Plantago elongata).



## SOIL

Sampling Point: 162

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 165/HCP 3153  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55844 Long: -117.01847 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>5</u> x 1 = <u>5</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>6</u> x 4 = <u>24</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>11</u> (A) <u>29</u> (B) Prevalence Index = B/A = <u>2.6</u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Lythrum hyssopifolia</u> 3 Y OBL 2. <u>Bromus hordeaceus</u> 5 Y FACU 3. <u>Plagiobothrys acanthocarpus</u> 2 N OBL 4. <u>Erodium botrys</u> 1 N FACU 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> <u>11</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>92</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The pool supports hydrophytic vegetation, and it also support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 165/HCP 3153

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/2	90	7.5Yr 4/4	10	C	M	clay	
4-12	10YR 5/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>12</u>	Hydric Soil Present?    Yes <u>X</u> No <u>      </u>
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Remarks: redox features observed within top layer (0-4")

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> Water Table Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> Saturation Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u>      </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 166  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55891 Long: -117.01857 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		<u>40</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Plagiobothrys acanthocarpus</u>		<u>10</u>	<u>N</u>	<u>OBL</u>	
3. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
4. <u>Plantago elongata</u>		<u>5</u>	<u>N</u>	<u>FACW</u>	
5. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
6. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>Hypochaeris glabra</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
8. <u>Sonchus asper</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>40</u> % Cover of Biotic Crust <u>      </u>					
<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)					
<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Psilocarphus brevissimus, and Plantago elongata). Leaf litter is present in basin.



## SOIL

Sampling Point: 166

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks, biotic crusts, and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 167  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55912634880 Long: -117.01965049300 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology X naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>17</u> x 4 = <u>68</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>21</u> (A) <u>78</u> (B) Prevalence Index = B/A = <u>3.7</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>		
2. <u>Deinandra fasciculata</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>		
3. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
4. <u>Glebionis coronaria</u>	<u>1</u>	<u>N</u>	<u>UPL</u>		
5. <u>Erodium botrys</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>		
6. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
7. <u>Festuca myuros</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
8. <u>Hordeum murinum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>79</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Plantago elongata, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 167

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: No hydric soil indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 168  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55885663370 Long: -117.01947268800 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals: <u>8</u> (A) <u>28</u> (B) Prevalence Index = B/A = <u>3.5</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Plagiobothrys acanthocarpus</u>	<u>3</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Plantago elongata</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
4. <u>Erodium botrys</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Deinandra fasciculata</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Hypochaeris glabra</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>Glebionis coronaria</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
8. <u>Bromus madritensis</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
<u>23</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>				
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>77</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Psilocarphus brevissimus, and Plantago elongata).



## SOIL

Sampling Point: 168

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 169  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55853 Long: -117.01932 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>38</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>10</u> (A) <u>31</u> (B) Prevalence Index = B/A = <u>3.1</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		<u>3</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Matricaria discoidea</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	
4. <u>Festuca myuros</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Bromus madritensis</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
6. <u>Hordeum murinum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
7. <u>Plantago elongata</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
8. <u>Hypochaeris glabra</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>90</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not predominately support hydrophytic vegetation. It does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Plantago elongata). Leaf litter is present in basin.



## SOIL

Sampling Point: 169

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	7.5YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: No hydric soil indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 170  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55841108530 Long: -117.01927967500 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>5</u> x 2 = <u>10</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>14</u> (A) <u>44</u> (B) Prevalence Index = B/A = <u>3.1</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Hypochaeris glabra</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
3. <u>Crassula connata</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
4. <u>Deinandra fasciculata</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Erodium botrys</u>		<u>3</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
7. <u>Logfia gallica</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
8. <u>Spergularia bocconi</u>		<u>4</u>	<u>Y</u>	<u>FACW</u>	
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>86</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).					



## SOIL

Sampling Point: 170

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of ponding indicates that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 171  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55866 Long: -117.01891 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Psilocarphus brevissimus</u> 1 N FACW 2. <u>Plantago elongata</u> 4 Y FACW 3. <u>Spergularia bocconi</u> 10 Y FACW 4. <u>Plagiobothrys acanthocarpus</u> 2 N OBL 5. <u>Festuca myuros</u> 1 N FACU 6. <u>Juncus bufonius</u> 1 N FACW 7. <u>Erodium botrys</u> 1 N FACU 8. <u>Hedypnois cretica</u> 1 N UPL 21 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>79</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 171

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and immature fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 172/HCP 3418  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55861270600 Long: -117.01882511700 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>3</u> x 1 = <u>3</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>37</u> x 4 = <u>148</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>45</u> (A) <u>165</u> (B) Prevalence Index = B/A = <u>3.7</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		3	N	FACW	
2. <u>Plagiobothrys acanthocarpus</u>		3	N	OBL	
3. <u>Hypochaeris glabra</u>		1	N	UPL	
4. <u>Deinandra fasciculata</u>		15	Y	FACU	
5. <u>Erodium botrys</u>		20	Y	FACU	
6. <u>Festuca myuros</u>		1	N	FACU	
7. <u>Hordeum murinum</u>		1	N	FACU	
8. <u>Lepidium nitidum</u>		1	N	FAC	
		45		= Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>55</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 172/HCP 3418

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and presence of immature fairy shrimp indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 173  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55824 Long: -117.01892 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Plagiobothrys acanthocarpus</u>		8	Y	OBL	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Spergularia bocconi</u>		15	Y	FACW		
3. <u>Erodium botrys</u>		5	N	FACU		
4. <u>Festuca myuros</u>		1	N	FACU		
5. <u>Matricaria discoidea</u>		1	N	FACU		
6. <u>Hordeum murinum</u>		4	N	FACU		
7. <u>Bromus hordeaceus</u>		1	N	FACU		
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>65</u> % Cover of Biotic Crust <u>      </u>						

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 173

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 174  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55918514910 Long: -117.01910965700 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>6</u> x 4 = <u>24</u> UPL species <u>7</u> x 5 = <u>35</u> Column Totals: <u>18</u> (A) <u>68</u> (B) Prevalence Index = B/A = <u>3.78</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		<u>3</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plantago elongata</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Matricaria discoidea</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Glebionis coronaria</u>		<u>5</u>	<u>Y</u>	<u>UPL</u>	
5. <u>Erodium cicutarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>Hordeum murinum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
8. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>82</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Plantago elongata).



## SOIL

Sampling Point: 174

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 176  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55933888290 Long: -117.01930648600 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>7</u> x 4 = <u>28</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>9</u> (A) <u>34</u> (B) Prevalence Index = B/A = <u>3.8</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum murinum</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Erodium cicutarium</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
3. <u>Matricaria discoidea</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Lamarckia aurea</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>91</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 176

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 180  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55959881490 Long: -117.01993323600 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>      </u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals: <u>12</u> (A) <u>48</u> (B) Prevalence Index = B/A = <u>4.0</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Erodium botrys</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Logfia gallica</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Deinandra fasciculata</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Bromus madritensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>Glebionis coronaria</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>Lamarckia aurea</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>88</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 180

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 181  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55443 Long: -117.02287 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present? Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. Vegetation is not strongly hydrophytic and hydric soils were not observed. Sampled area is not a wetland.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>6</u> x 1 = <u>6</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>14</u> (A) <u>31</u> (B) Prevalence Index = B/A = <u>2.2</u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Plagiobothrys acanthocarpus</u> 6 Y OBL 2. <u>Lepidium latipes</u> 1 N FACW 3. <u>Plantago elongata</u> 1 N FACW 4. <u>Hordeum murinum</u> 2 Y FACU 5. <u>Lepidium nitidum</u> 1 N FAC 6. <u>Erodium botrys</u> 1 N FACU 7. <u>Psilocarphus brevissimus</u> 1 N FACW 8. <u>Festuca myuros</u> 1 N FACU 14 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>86</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> Dominance Test is >50% X Prevalence Index is ≤3.0 <sup>1</sup> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Plantago elongata, and Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: 181

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
18	10YR 4/3	100					Sandy Clay	No Redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: A lot of cobble near the surface.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 183  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.554522 Long: -117.023231 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				Prevalence Index worksheet: Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Lepidium latipes</u>		1	Y	FACW	
2. <u>Lepidium nitidum</u>		2	Y	FAC	
3. <u>Plagiobothrys acanthocarpus</u>		1	Y	OBL	
4. <u>Spergularia bocconi</u>		1	Y	FACW	
5. <u>Mesembryanthemum nodiflorum</u>		1	Y	FACU	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>
1. <u>none</u>		6			
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>94</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (*Plagiobothrys acanthocarpus*). Leaf litter is present in basin.



## SOIL

Sampling Point: 183

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 4/3						clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>cobble</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>12</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>          </u>	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>          </u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>          </u>	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 184  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55596137070 Long: -117.02618556900 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>x</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>4</u> (A) <u>14</u> (B) Prevalence Index = B/A = <u>3.5</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Glebionis coronaria</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Deinandra fasciculata</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>96</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 184

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 185  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55579730690 Long: -117.02590418900 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
<u>      </u> = Total Cover					
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>4</u> (A) <u>14</u> (B) Prevalence Index = B/A = <u>3.5</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
<u>      </u> = Total Cover					
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Glebionis coronaria</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Deinandra fasciculata</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
<u>4</u> = Total Cover					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
<u>      </u> = Total Cover					
% Bare Ground in Herb Stratum <u>96</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 185

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
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Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 29, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 186  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55610173070 Long: -117.02636476900 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>6</u> (A) <u>22</u> (B) Prevalence Index = B/A = <u>3.7</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Lepidium nitidum</u>		<u>1</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Erodium botrys</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Glebionis coronaria</u>		<u>2</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	
5. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>94</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 186

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/11/2019  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 190  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55444 Long: -117.02275 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation   X  , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   X   No         
 Are Vegetation       , Soil   X  , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>  X  </u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>  X  </u> No <u>      </u>
Hydric Soil Present?	Yes <u>  X  </u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>  X  </u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>  7  </u> (A) Total Number of Dominant Species Across All Strata: <u>  8  </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>  88  </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>  3  </u>	<u>  Y  </u>	<u>  FACW  </u>	
2. <u>Plagiobothrys acanthocarpus</u>		<u>  1  </u>	<u>  Y  </u>	<u>  OBL  </u>	
3. <u>Crassula aquatica</u>		<u>  1  </u>	<u>  Y  </u>	<u>  OBL  </u>	
4. <u>Plantago elongata</u>		<u>  1  </u>	<u>  Y  </u>	<u>  FACW  </u>	
5. <u>Spergularia bocconi</u>		<u>  1  </u>	<u>  Y  </u>	<u>  FACW  </u>	
6. <u>Lythrum hyssopifolia</u>		<u>  1  </u>	<u>  Y  </u>	<u>  OBL  </u>	
7. <u>Hordeum murinum</u>		<u>  1  </u>	<u>  Y  </u>	<u>  FACU  </u>	
8. <u>Hordeum depressum</u>		<u>  1  </u>	<u>  Y  </u>	<u>  FACW  </u>	
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>  90  </u> % Cover of Biotic Crust <u>  0  </u>					
<b>Hydrophytic Vegetation Indicators:</b> <u>  X  </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
<b>Hydrophytic Vegetation Present?</b> Yes <u>  X  </u> No <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Crassula aquatica, and Plantago elongata).



## SOIL

Sampling Point: 190

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	100					clay loam	no redox observed
3-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and dried aquatic invertebrates indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/11/2019  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 191  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55441 Long: -117.02272 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species      1      x 1 =      1 FACW species      1      x 2 =      2 FAC species      0      x 3 =      0 FACU species      3      x 4 =      12 UPL species      0      x 5 =      0 Column Totals:      5      (A)      15      (B) Prevalence Index = B/A = <u>3.0</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u> )</b>				
1. <u>Plagiobothrys acanthocarpus</u>	1	Y	OBL	<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% <u>X</u> _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Hordeum murinum</u>	2	Y	FACU	
3. <u>Spergularia bocconi</u>	1	Y	FACW	
4. <u>Mesembryanthemum nodiflorum</u>	1	Y	FACU	
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
			5 = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				
Remarks:				



## SOIL

Sampling Point: 191

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	98	10YR 5/4	2	C	M	Sandy Clay	
3-18	10YR 4/2.5	100					Clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: Depleted matrix observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Otay Southwest Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 192  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553696 Long: -117.024820 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Plagiobothrys acanthocarpus</u>		<1	N	OBL	
2. <u>Deinandra fasciculata</u>		<1	N	FACU	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					
<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.					



## SOIL

Sampling Point: 192

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 193  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553393 Long: -117.022964 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		10	Y	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lepidium nitidum</u>		1	N	FAC	
3. <u>Plantago elongata</u>		1	N	FACW	
4. <u>Plagiobothrys acanthocarpus</u>		15	Y	OBL	
5. <u>Crassula aquatica</u>		1	N	OBL	
6. <u>Spergularia bocconi</u>		2	N	FACW	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>70</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, Plagiobothrys acanthocarpus, and Crassula aquatica). Leaf litter is present in basin.



## SOIL

Sampling Point: 193

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 194  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553307 Long: -117.022936 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>11</u> x 3 = <u>33</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>18</u> (A) <u>61</u> (B) Prevalence Index = B/A = <u>3.4</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
2. <u>Festuca perennis</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
3. <u>Lepidium nitidum</u>		<u>10</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Erodium cicutarium</u>		<u>5</u>	<u>Y</u>	<u>UPL</u>	
5. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>82</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not contain a predominance of hydrophytic vegetation, but it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 194

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-14	10YR 4/2	100					clay	cobbles abundant throughout

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>14</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: no redox features observed

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 195/HCP1225  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553357 Long: -117.022755 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		70	Y	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>		15	N	FAC	
3. <u>Hordeum murinum</u>		5	N	FACU	
4. <u>Lepidium latipes</u>		1	N	FACW	
5. <u>Plantago elongata</u>		1	N	FACW	
6. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
7. <u>Isoetes orcuttii</u>		1	N	OBL	
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>6</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, Plagiobothrys acanthocarpus, and Isoetes orcuttii). Leaf litter is present in basin.



## SOIL

Sampling Point: 195/HCP1225

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/1	100					loamy clay	large cobbles abundant throughout

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 196  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553006 Long: -117.022848 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? Yes ☐ Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☒, or Hydrology ☐ naturally problematic? Yes ☐ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83</u> (A/B)
1. <u>none</u>				
2. _____				
3. _____				
4. _____				
				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>2</u> x 1 = <u>2</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>8</u> (A) <u>18</u> (B) Prevalence Index = B/A = <u>2.3</u>
_____ = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: _____)</b> 1. <u>none</u> 2. _____ 3. _____ 4. _____ 5. _____ _____ = Total Cover				
<b>Herb Stratum (Plot size: _____)</b> 1. <u>Psilocarphus brevissimus</u> <u>3</u> <u>Y</u> <u>FACW</u> 2. <u>Lepidium nitidum</u> <u>1</u> <u>Y</u> <u>FAC</u> 3. <u>Plagiobothrys acanthocarpus</u> <u>1</u> <u>Y</u> <u>OBL</u> 4. <u>Hordeum murinum</u> <u>1</u> <u>Y</u> <u>FACU</u> 5. <u>Festuca perennis</u> <u>1</u> <u>Y</u> <u>FAC</u> 6. <u>Crassula aquatica</u> <u>1</u> <u>Y</u> <u>OBL</u> 7. _____ 8. _____ _____ = Total Cover				
<b>Woody Vine Stratum (Plot size: _____)</b> 1. <u>none</u> 2. _____ _____ = Total Cover				
% Bare Ground in Herb Stratum <u>96</u> % Cover of Biotic Crust _____				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Crassula aquatica). Leaf litter is present in basin.



## SOIL

Sampling Point: 196

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 4/2	100					clay	cobbles abundant throughout

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>8</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 197  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.552248 Long: -117.023201 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 9 to 30 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Psilocarphus brevissimus</u>		10	Y	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Lepidium nitidum</u>		10	Y	FAC		
3. <u>Deinandra fasciculata</u>		5	N	FACU		
4. <u>Erodium cicutarium</u>		5	N	UPL		
5. <u>Bromus madritensis</u>		1	N	UPL		
6. <u>Festuca perennis</u>		10	Y	FAC		
7. <u>      </u>						
8. <u>      </u>						
						41 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>59</u> % Cover of Biotic Crust <u>      </u>						

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 197

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 198  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.552045 Long: -117.022170 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u><i>Psilocarphus brevissimus</i></u> 80 Y FACW 2. <u><i>Plagiobothrys acanthocarpus</i></u> 1 N OBL 3. <u><i>Centaurea melitensis</i></u> 1 N UPL 4. <u><i>Deinandra fasciculata</i></u> 1 N FACU 5. <u><i>Lepidium nitidum</i></u> 1 N FAC 6. <u><i>Bromus hordeaceus</i></u> 1 N FACU 7. <u><i>Hordeum murinum</i></u> 1 N FACU 8. <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>14</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (*Plagiobothrys acanthocarpus*). Leaf litter is present in basin.



## SOIL

Sampling Point: 198

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/2	100					sandy clay	
2-18	10YR 4/3	100						

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 199  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55203594850 Long: -117.02214618600 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>8</u> (A) <u>29</u> (B) Prevalence Index = B/A = <u>3.6</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Centaurea melitensis</u>		<u>2</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Hordeum murinum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Bromus hordeaceus</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Mesembryanthemum nodiflorum</u>		<u>2</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>95</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).					



## SOIL

Sampling Point: 199

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 200  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55491 Long: -117.02434 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>40</u> x 5 = <u>200</u> Column Totals: <u>97</u> (A) <u>373</u> (B) Prevalence Index = B/A = <u>3.8</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Festuca perennis</u>		<u>50</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Hordeum murinum</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	
5. <u>Erodium cicutarium</u>		<u>40</u>	<u>Y</u>	<u>UPL</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<u>97</u> = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>3</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not meet the qualifications for hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 200

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface biotic crusts indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 201  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553335 Long: -117.021113 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? Yes ☐ Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? Yes ☐ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
3. _____					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. _____					
5. _____					
= Total Cover					
<b>Herb Stratum</b> (Plot size: _____ )					
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Festuca perennis</u>		<u>45</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Hordeum marinum</u>		<u>40</u>	<u>Y</u>	<u>FAC</u>	
5. _____					
6. _____					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
7. _____					
8. _____					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____					
= Total Cover					
% Bare Ground in Herb Stratum <u>13</u> % Cover of Biotic Crust _____					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area supports predominantly hydrophytic vegetation, and it also supports two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).					



## SOIL

Sampling Point: 201

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1								plant litter
1-18	10YR 4/1	90	7.5YR 4/6	10	C	RC/M	sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 202  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.552359 Long: -117.020708 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>3.2</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		1	N	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>		2	N	OBL	
3. <u>Festuca perennis</u>		8	Y	FAC	
4. <u>Hordeum marinum</u>		10	Y	FAC	
5. <u>Lepidium nitidum</u>		1	N	FACW	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					22 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>78</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does support a prevalence of hydrophytic vegetation, and it also supports two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).					



## SOIL

Sampling Point: 202

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 4/1.5	98	7.5YR 3/3	2	C	M	clay	
5-18	10YR 5/2	100						

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <u>X</u> No _____
--	---

Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 203  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.551406 Long: -117.018531 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>2</u>	<u>N</u>	<u>FACW</u>	
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Festuca perennis</u>		<u>20</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Hordeum murinum</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	
5. <u>Melilotus indicus</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>67</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 203

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 204  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.554354 Long: -117.018500 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
Herb Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Spergularia bocconi</u>	5	Y	FACW	
2. <u>Psilocarphus brevissimus</u>	7	Y	FACW	
3. <u>Hordeum murinum</u>	2	N	FACU	
4. <u>Lepidium nitidum</u>	1	N	FAC	
5. <u>Festuca perennis</u>	1	N	FAC	
6. <u>Plagiobothrys acanthocarpus</u>	1	N	OBL	
7. <u>      </u>				
8. <u>      </u>				
			17 = Total Cover	
Woody Vine Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>83</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: 204

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/2	97	10YR 5/6	3			clay	redox
0-18	10YR 4/4	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: redox observed in top soil layer with insufficient thickness to meet a hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/23/2019  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 205  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55428 Long: -117.01845 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plantago elongata</u>		<u>2</u>	<u>No</u>	<u>OBL</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Psilocarphus brevissimus</u>		<u>25</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Hordeum murinum</u>		<u>1</u>	<u>No</u>	<u>FACU</u>	
4. <u>Spergularia bocconi</u>		<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>70</u> % Cover of Biotic Crust <u>0</u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).					



## SOIL

Sampling Point: 205

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 3/3	100					clay	no redox
1-4	10YR 3/3	99	10YR 4/4	1	C	M	sandy clay	redox
4-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: redox observed in second layer, but insufficient amount to meet hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 206  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.550441 Long: -117.017843 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		60	Y	FACW	
2. <u>Plagiobothrys acanthocarpus</u>		1	N	OBL	
3. <u>Festuca perennis</u>		3	N	FAC	
4. <u>Hordeum murinum</u>		5	N	FACU	
5. <u>Lepidium latipes</u>		1	N	FACW	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>30</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 206

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/1	99	10YR 4/6	1	C	RC	sandy clay	redox
3-18	10YR 4/1	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: hydric soil indicator (depleted matrix) observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 207  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.549948 Long: -117.018225 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		1	Y	FACW	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>Plagiobothrys acanthocarpus</u>		1	Y	OBL	
3. <u>Spergularia bocconi</u>		1	Y	FACW	
4. <u>Matricaria discoidea</u>		1	Y	FACU	
5. <u>Hordeum murinum</u>		1	Y	FACU	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>95</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus). Leaf litter is present in basin.					



## SOIL

Sampling Point: 207

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 208  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.549853 Long: -117.017305 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>25</u> x 1 = <u>25</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>8</u> x 3 = <u>24</u> FACU species <u>15</u> x 4 = <u>60</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>49</u> (A) <u>111</u> (B) Prevalence Index = B/A = <u>2.3</u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Psilocarphus brevissimus</u> 1 N FACW 2. <u>Plagiobothrys acanthocarpus</u> 25 Y OBL 3. <u>Festuca perennis</u> 3 N FAC 4. <u>Hordeum murinum</u> 15 Y FACU 5. <u>Lepidium nitidum</u> 5 N FAC 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 49 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>51</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: 208

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 209  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.549652 Long: -117.017107 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Psilocarphus brevissimus</u> 99 Y FACW 2. <u>Plagiobothrys acanthocarpus</u> 1 N OBL 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> <u>100</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: 209

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: \_\_\_\_\_ City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 210  
 Investigator(s): Beth Proccsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553095 Long: -117.022864 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation X, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Yes \_\_\_\_\_ Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil X, or Hydrology \_\_\_\_\_ naturally problematic? Yes \_\_\_\_\_ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. _____				
3. _____				
4. _____				
				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
_____ = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: _____)</b> 1. <u>none</u> 2. _____ 3. _____ 4. _____ 5. _____ _____ = Total Cover				
<b>Herb Stratum (Plot size: _____)</b> 1. <u>Spergularia bocconi</u> 2 N FACW 2. <u>Psilocarphus brevissimus</u> 75 Y FACW 3. <u>Festuca perennis</u> 1 N FAC 4. <u>Lepidium nitidum</u> 1 N FAC 5. <u>Hordeum murinum</u> 1 N FACU 6. _____ 7. _____ 8. _____ 80 = Total Cover				
<b>Woody Vine Stratum (Plot size: _____)</b> 1. <u>none</u> 2. _____ _____ = Total Cover				
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust _____				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (*Psilocarphus brevissimus*). Leaf litter is present in basin.



## SOIL

Sampling Point: 210

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					clay	cobble abundant throughout

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 211  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5591829749 Long: -117.018795627 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>15</u> x 2 = <u>30</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>12</u> x 4 = <u>48</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>30</u> (A) <u>87</u> (B) Prevalence Index = B/A = <u>2.9</u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Spergularia bocconi</u> 15 Yes FACW 2. <u>Erodium botrys</u> 10 Yes FACU 3. <u>Matricaria discoidea</u> 1 No FACU 4. <u>Psilocarphus brevissimus</u> 1 No FACU 5. <u>Plagiobothrys acanthocarpus</u> 1 No OBL 6. <u>Glebionis coronaria</u> 1 No UPL 7. <u>Crassula connata</u> 1 No FAC 8. <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>70</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 211

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/3	100					sandy loam	
2-10	10YR 4/3	100					silty loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>10</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u> (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 212  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.559058874 Long: -117.018131299 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plantago elongata</u>		8	Yes	FACW	
2. <u>Crassula connata</u>		1	No	FAC	
3. <u>Festuca myuros</u>		1	No	FACU	
4. <u>Psilocarphus tenellus</u>		1	No	OBL	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>89</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plantago elongata).



## SOIL

Sampling Point: 212

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 3/3	100					loamy sand	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>6</u>	

Remarks: Cobble mixed with soil. No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 224  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5586464728 Long: -117.017733218 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>57</u> (A/B)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>6</u> x 2 = <u>12</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>11</u> (A) <u>30</u> (B) Prevalence Index = B/A = <u>2.7</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plantago elongata</u>		<u>5</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Pseudognaphalium luteoalbum</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Sonchus asper</u>		<u>1</u>	<u>Y</u>	<u>FAC</u>	
5. <u>Deinandra fasciculata</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Hirschfeldia incana</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
7. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>89</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Plantago elongata, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 224

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/4	95	10YR 4/6	5	C	M	sandy loam	redox observed
3-10	10YR 4/4	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input checked="" type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal (cobble)</u> Depth (inches): <u>10</u>	Hydric Soil Present?    Yes <u>X</u> No <u>      </u>
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Remarks: distinct redox features observed in upper layer (0-3")

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> Water Table Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> Saturation Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u>      </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 227  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5542548451 Long: -117.014326309 Datum: NAD 83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>3</u> (B)			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7 %</u> (A/B)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by:			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	<u>    </u>	x 1 =	<u>0</u>
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species	<u>12</u>	x 2 =	<u>24</u>
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	<u>10</u>	x 3 =	<u>30</u>
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species	<u>10</u>	x 4 =	<u>40</u>
Total Cover: <u>    </u> %				UPL species	<u>    </u>	x 5 =	<u>0</u>
				Column Totals:	<u>32</u>	(A)	<u>94</u> (B)
				Prevalence Index = B/A = <u>2.94</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Psilocarphus brevissimus</u>	<u>8</u>	Yes	FACW	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Lepidium latipes</u>	<u>1</u>	No	FACW	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Plantago elongata</u>	<u>2</u>	No	FACW	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Hordeum murinum</u>	<u>10</u>	Yes	FACU	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <u>Festuca perennis</u>	<u>10</u>	Yes	FAC				
6. <u>Spergularia bocconi</u>	<u>1</u>	No	FACW				
7.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
8.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>32 %</u>							
Woody Vine Stratum				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>68 %</u>			% Cover of Biotic Crust <u>    </u> %				
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).							



## SOIL

Sampling Point: 227

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
					▼			
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                           | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 228  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5542708629 Long: -117.015570618 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>2</u> (B)			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by: <u>    </u>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	<u>6</u>	x 1 =	<u>6</u>
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species	<u>23</u>	x 2 =	<u>46</u>
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	<u>20</u>	x 3 =	<u>60</u>
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species	<u>5</u>	x 4 =	<u>20</u>
Total Cover: <u>    </u> %				UPL species	<u>    </u>	x 5 =	<u>0</u>
				Column Totals:	<u>54</u>	(A)	<u>132</u> (B)
				Prevalence Index = B/A = <u>2.44</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Lilaea scilloides</u>	<u>5</u>	No	OBL	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Psilocarphus brevissimus</u>	<u>20</u>	Yes	FACW	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Plantago elongata</u>	<u>1</u>	No	FACW	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	No	OBL	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <u>Festuca perennis</u>	<u>20</u>	Yes	FAC				
6. <u>Lepidium latipes</u>	<u>1</u>	No	FACW				
7. <u>Hordeum murinum</u>	<u>5</u>	No	FACU				
8. <u>Eleocharis macrostachya</u>	<u>1</u>	No	FACW				
Total Cover: <u>54 %</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>46 %</u>		% Cover of Biotic Crust <u>    </u> %					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Lilaea scilloides, Plantago elongata, and Plagiobothrys acanthocarpus).							



## SOIL

Sampling Point: 228

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                           | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 229  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.553601423 Long: -117.01563516 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>50</u> x 4 = <u>200</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>72</u> (A) <u>263</u> (B) Prevalence Index = B/A = <u>3.65</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>No</u>	<u>OBL</u>		
2. <u>Hordeum murinum</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>		
3. <u>Bromus hordeaceus</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>		
4. <u>Festuca perennis</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>		
5. <u>Lepidium latipes</u>	<u>1</u>	<u>No</u>	<u>FACW</u>		
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>28</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not consist of a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 229

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-<1	10YR 3/1	99	7.5 YR 5/6	1	C	RC	clay	Redox
<1-4	10YR 3/1	100					clay	No redox
4-18	10YR 4/2	100					clay	No redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>none</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth (inches): <u>18</u>	

Remarks: Insufficient amount of redox found in top layer of soil (<1")

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 230  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5524592831 Long: -117.015398405 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
= Total Cover				
Sapling/Shrub Stratum	(Plot size: <u>      </u> )			
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
= Total Cover				
Herb Stratum	(Plot size: <u>      </u> )			
1. <u>Festuca perennis</u>		40	Yes	FAC
2. <u>Bromus hordeaceus</u>		10	Yes	FACU
3. <u>Atriplex semibaccata</u>		1	No	FAC
4. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
52 = Total Cover				
Woody Vine Stratum	(Plot size: <u>      </u> )			
1. <u>none</u>				
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>48</u>		% Cover of Biotic Crust <u>      </u>		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>1</u>	x 1 = <u>1</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>41</u>	x 3 = <u>124</u>
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>51</u> (A)	<u>161</u> (B)

Prevalence Index = B/A = 3.2

**Hydrophytic Vegetation Indicators:**  
       Dominance Test is >50%  
       Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes        No X

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not consist of a predominance of hydrophytic vegetation, but it supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 230

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/2	100					clay	
3-18	10YR 4/2	100					clay	no redox, lots of cobble

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
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Remarks: no hydric soils indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
---	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 233  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5520770401 Long: -117.015332601 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by:			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	<u>    </u> x 1 =	<u>0</u>	
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species	<u>    </u> x 2 =	<u>0</u>	
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	<u>49</u> x 3 =	<u>147</u>	
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species	<u>1</u> x 4 =	<u>4</u>	
Total Cover: <u>    </u> %				UPL species	<u>1</u> x 5 =	<u>5</u>	
				Column Totals:	<u>51</u> (A)	<u>156</u> (B)	
				Prevalence Index = B/A = <u>3.06</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Festuca perennis</u>	<u>45</u>	<u>Yes</u>	<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Sonchus oleraceus</u>	<u>1</u>	<u>No</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Medicago polymorpha</u>	<u>4</u>	<u>No</u>	<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Hordeum murinum</u>	<u>1</u>	<u>No</u>	<u>FACU</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
6.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
7.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
8.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>51 %</u>							
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>49 %</u>		% Cover of Biotic Crust <u>    </u> %					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 233

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerfuerlo loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and the presence of San Diego fairy shrimp and hydrophytic vegetation indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 234  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5521063793 Long: -117.015215438 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>        </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of: <u>        </u> Multiply by:			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	<u>        </u>	x 1 =	<u>0</u>
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species	<u>        </u>	x 2 =	<u>0</u>
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	<u>57</u>	x 3 =	<u>171</u>
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species	<u>2</u>	x 4 =	<u>8</u>
Total Cover: <u>        </u> %				UPL species	<u>1</u>	x 5 =	<u>5</u>
				Column Totals:	<u>60</u>	(A)	<u>184</u> (B)
				Prevalence Index = B/A = <u>3.07</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Festuca perennis</u>	<u>55</u>	<u>Yes</u>	<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Medicago polymorpha</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Sonchus oleraceus</u>	<u>1</u>	<u>No</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Hordeum murinum</u>	<u>2</u>	<u>No</u>	<u>FACU</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
6.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
7.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
8.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>60 %</u>							
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>        </u> %							
% Bare Ground in Herb Stratum <u>40 %</u>		% Cover of Biotic Crust <u>        </u> %					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 234

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%				
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Olivenhain cobbly loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and the presence of hydrophytic vegetation indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 235  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5521865264 Long: -117.014692963 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Lilaea scilloides</u>	<u>3</u>	<u>No</u>	<u>OBL</u>	
2. <u>Psilocarphus brevissimus</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
4. <u>Spergularia bocconi</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Juncus bufonius</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
6. <u>Lythrum hyssopifolia</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	
7. <u>Festuca perennis</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	
8. <u>Hordeum murinum</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	
= Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>73</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 235

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 4/1	97	5YR 5/6	3	C	M	clay	redox
5-18	10YR 3/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: depleted matrix present in top soil layer

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and aquatic invertebrates all indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 237  
 Investigator(s): B. Procsal and J. Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5521381887 Long: -117.015097237 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>3.66</u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>				
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover				
<b>Herb Stratum (Plot size: <u>      </u> )</b>				
1. <u>Hordeum marinum</u>	<u>20</u>	<u>yes</u>	<u>FAC</u>	
2. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>no</u>	<u>FACU</u>	
3. <u>Atriplex semibaccata</u>	<u>1</u>	<u>no</u>	<u>FAC</u>	
4. <u>Festuca perennis</u>	<u>10</u>	<u>yes</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
= Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>68</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area receives runoff from a relatively small local micro-watershed. The sample area supports a predominance of hydrophytic vegetation



## SOIL

Sampling Point: 237

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 5/1	100					clay	
5-18	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <u>X</u> No _____
--	---

Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 238  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5490675592 Long: -117.016368445 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
1. <u>None</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>None</u>					<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>6</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>12</u> x 5 = <u>60</u> Column Totals: <u>14</u> (A) <u>65</u> (B) Prevalence Index = B/A = <u>4.64</u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. <u>Bromus madritensis</u>		<u>10</u>	<u>Yes</u>	<u>UPL</u>		
3. <u>Centaurea melitensis</u>		<u>1</u>	<u>No</u>	<u>UPL</u>		
4. <u>Sonchus oleraceus</u>		<u>1</u>	<u>No</u>	<u>UPL</u>		
5. <u>Lasthenia gracilis</u>		<u>1</u>	<u>No</u>	<u>FACU</u>		
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>None</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>86</u>		% Cover of Biotic Crust <u>0</u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 238

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	No	X
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No    X    Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 239-WET  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.54926 Long: -117.01721 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Centaurea melitensis</u>	<u>10</u>	<u>Y</u>	<u>UPL</u>		
2. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
3. <u>Deinandra fasciculata</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>		
4. <u>Erodium botrys</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>		
5. <u>Logfia sp.</u>	<u>3</u>	<u>N</u>	<u>UPL</u>		
6. <u>Bromus rubens</u>	<u>1</u>	<u>N</u>	<u>UPL</u>		
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>75</u> % Cover of Biotic Crust <u>      </u>					

Remarks:



## SOIL

Sampling Point: 239-WET

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No    X    Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      No      X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 242  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5499657092 Long: -117.019485375 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Rumex crispus</u> 30 Yes FAC 2. <u>Lythrum hyssopifolia</u> 1 No OBL 3. <u>Festuca perennis</u> 10 Yes FAC 4. <u>Hordeum depressum</u> 8 No FACW 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 49 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>51</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 242

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/2	99	7.5YR 4/6	1	C	M	sandy clay	redox
3-18	10YR 3/3						clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: redox observed; however, hydric soil indicator not met. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		<input type="checkbox"/> Water Marks (B1) (Riverine)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 1	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 0	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 0	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water was present at the time of the delineation, along with evidence of biotic crust, aquatic invertebrates, and the presence of hydrophytic vegetation, all indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 243  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5507106377 Long: -117.020718634 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum depressum</u>		5	Yes	FACW	
2. <u>Festuca perennis</u>		5	Yes	FAC	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
% Bare Ground in Herb Stratum <u>90</u> % Cover of Biotic Crust <u>      </u>					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 243

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 4/2	100					loamy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>8</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water was present at the time of the delineation, evidence of aquatic invertebrates, and the presence of hydrophytic vegetation, which all indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 244  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5511879859 Long: -117.021149438 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				= Total Cover
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
				= Total Cover
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Psilocarphus brevissimus</u>	<u>35</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Glebionis coronaria</u>	<u>1</u>	<u>No</u>	<u>UPL</u>	
3. <u>Festuca perennis</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	
4. <u>Spergularia bocconi</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Juncus bufonius</u>	<u>2</u>	<u>No</u>	<u>FACW</u>	
6. <u>Medicago polymorpha</u>	<u>2</u>	<u>No</u>	<u>FACU</u>	
7. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	
8. <u>      </u>				
				= Total Cover
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
				= Total Cover
% Bare Ground in Herb Stratum <u>48</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 244

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/3						sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>6</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		<input type="checkbox"/> Water Marks (B1) (Riverine)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water was present at the time of the delineation, along with surface soil cracks, biotic crust, and aquatic invertebrates; all indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 245  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5505161518 Long: -117.022830989 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				= Total Cover
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
				= Total Cover
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Psilocarphus brevissimus</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	
3. <u>Spergularia bocconi</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
4. <u>Plantago elongata</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Deinandra fasciculata</u>	<u>3</u>	<u>No</u>	<u>FACU</u>	
6. <u>Festuca perennis</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	
7. <u>Hordeum intercedens</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	
8. <u>Erodium botrys</u>	<u>3</u>	<u>No</u>	<u>FACU</u>	
				= Total Cover
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
				= Total Cover
% Bare Ground in Herb Stratum <u>54</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 245

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 3/3	100					loamy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>6</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water was present at the time of the delineation, as well as surface soil cracks, evidence of biotic crust, and aquatic invertebrates; all indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 247  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5497425444 Long: -117.025637034 Datum: NAD83  
 Soil Map Unit Name: Linne clay loam, 9 to 30 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>6</u> (A) <u>16</u> (B) Prevalence Index = B/A = <u>2.7</u>
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
Herb Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>	<u>3</u>	<u>No</u>	<u>FACW</u>	
2. <u>Plantago elongata</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Deinandra fasciculata</u>	<u>4</u>	<u>Yes</u>	<u>FACU</u>	
4. <u>Spergularia bocconi</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Logfia gallica</u>	<u>1</u>	<u>No</u>	<u>UPL</u>	
6. <u>Crassula aquatica</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	
7. <u>      </u>				
8. <u>      </u>				
<u>20</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>      </u> )				
1. <u>none</u>				
2. <u>      </u>				
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>80</u>	% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Crassula aquatica).



## SOIL

Sampling Point: 247

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 3/2	94%	5YR 4/6	6%	C	RC	sandy clay	
1-10	7.5YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>10</u>	

Remarks: Some redox features observed, but insufficient to meet a hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): <u>                    </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of a biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 249  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5518288022 Long: -117.024448931 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>4</u> x 5 = <u>20</u> Column Totals: <u>8</u> (A) <u>33</u> (B) Prevalence Index = B/A = <u>4.1</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Deinandra fasciculata</u>		<u>3</u>	<u>Yes</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Glebionis coronaria</u>		<u>3</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
4. <u>Bromus madritensis</u>		<u>1</u>	<u>No</u>	<u>UPL</u>	
5. <u>      </u>					
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>92</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 249

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <u>X</u> No _____    Depth (inches): <u>1</u> Water Table Present?    Yes <u>X</u> No _____    Depth (inches): <u>0</u> Saturation Present?    Yes <u>X</u> No _____    Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water was present at the time of the delineation along with evidence of surface soil cracks and biotic crust, all indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 250  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5540820502 Long: -117.025325187 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		<u>0</u>	= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>9</u> x 5 = <u>45</u> Column Totals: <u>12</u> (A) <u>54</u> (B) Prevalence Index = B/A = <u>4.50</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>      </u> )					
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
		<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Deinandra fasciculata</u>		<u>2</u>	<u>No</u>	<u>FACU</u>	
2. <u>Bromus madritensis</u>		<u>4</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>Glebionis coronaria</u>		<u>4</u>	<u>Yes</u>	<u>UPL</u>	
4. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
5. <u>Hedynois cretica</u>		<u>1</u>	<u>No</u>	<u>UPL</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
		<u>12</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>None</u>					
2. <u>      </u>					
		<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>88</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 250

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes X No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 251  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5543600385 Long: -117.025669293 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>15</u> x 1 = <u>15</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>22</u> x 5 = <u>110</u> Column Totals: <u>39</u> (A) <u>132</u> (B) Prevalence Index = B/A = <u>3.38</u>
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>15</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Bromus madritensis</u>		<u>20</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>Erodium botrys</u>		<u>1</u>	<u>No</u>	<u>UPL</u>	
4. <u>Logfia gallica</u>		<u>1</u>	<u>No</u>	<u>UPL</u>	
5. <u>Lepidium nitidum</u>		<u>1</u>	<u>No</u>	<u>FAC</u>	
6. <u>Lamarckia aurea</u>		<u>1</u>	<u>No</u>	<u>FACU</u>	
7. <u>      </u>					
8. <u>      </u>					
		<u>39</u>	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>None</u>					
2. <u>      </u>					
		<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>61</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 251

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

\_\_\_\_\_ 1 cm Muck (A9) (**LRR C**)  
 \_\_\_\_\_ 2 cm Muck (A10) (**LRR B**)  
 \_\_\_\_\_ Reduced Vertic (F18)  
 \_\_\_\_\_ Red Parent Material (TF2)  
 \_\_\_\_\_ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	No	X
----------------------	-----	----	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No    X    Depth (inches):

Water Table Present?      Yes      No    X    Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of a biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 252  
 Investigator(s): Andrew Smisek, Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5586559439 Long: -117.027031501 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
Herb Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Spergularia bocconi</u>	<u>1</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Deinandra fasciculata</u>	<u>1</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Schismus barbatus</u>	<u>1</u>	<u>Yes</u>	<u>UPL</u>	
4. <u>Sonchus asper</u>	<u>1</u>	<u>Yes</u>	<u>FAC</u>	
5. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>Yes</u>	<u>FACW</u>	
6. <u>Juncus bufonius</u>	<u>1</u>	<u>Yes</u>	<u>FACW</u>	
7. <u>      </u>				
8. <u>      </u>				
<u>6</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>94</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 252

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/2	95	5YR 4/6	5	C	M	sandy clay	
2-6	10YR 4/2	100					sandy clay	sandy clay
6-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: sufficient thickness for depleted matrix

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input checked="" type="checkbox"/> No _____    Depth (inches): _____ 1 Water Table Present?    Yes <input checked="" type="checkbox"/> No _____    Depth (inches): _____ 0 Saturation Present?    Yes <input checked="" type="checkbox"/> No _____    Depth (inches): _____ 0 (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
---	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water was present at the time of the delineation, along with evidence of surface soil cracks, biotic crust, and aquatic invertebrates; all indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 253  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5580127416 Long: -117.028200342 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>None</u>					<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species      0      x 1 =      0 FACW species      1      x 2 =      2 FAC species      1      x 3 =      3 FACU species      9      x 4 =      36 UPL species      6      x 5 =      30 Column Totals:      17      (A)      71      (B) Prevalence Index = B/A = <u>4.18</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		1	No	FACW	<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Deinandra fasciculata</u>		3	No	FACU	
3. <u>Erodium botrys</u>		5	Yes	FACU	
4. <u>Lamarckia aurea</u>		5	Yes	UPL	
5. <u>Lasthenia gracilis</u>		1	No	FACU	
6. <u>Schismus barbatus</u>		1	No	UPL	
7. <u>Crassula connata</u>		1	No	FAC	
8. <u>      </u>					
					17 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>None</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					0 = Total Cover
% Bare Ground in Herb Stratum <u>83</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 253

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 254  
 Investigator(s): Andrew Smisek, Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5581331242 Long: -117.028458456 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>71</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				= Total Cover
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
				= Total Cover
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Crassula aquatica</u>	<u>1</u>	<u>Yes</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Juncus bufonius</u>	<u>1</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Plantago elongata</u>	<u>1</u>	<u>Yes</u>	<u>FACW</u>	
4. <u>Spergularia bocconi</u>	<u>1</u>	<u>Yes</u>	<u>FACW</u>	
5. <u>Deinandra fasciculata</u>	<u>1</u>	<u>Yes</u>	<u>FACU</u>	
6. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>Yes</u>	<u>FACW</u>	
7. <u>Erodium botrys</u>	<u>1</u>	<u>Yes</u>	<u>FACU</u>	
8. <u>      </u>				
				= Total Cover
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
				= Total Cover
% Bare Ground in Herb Stratum <u>93</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Crassula aquatica, Plantago elongata, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 254

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 1	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 0	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 0	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water was present at the time of the delineation, as well as surface soil cracks and biotic crust, all indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 255  
 Investigator(s): Beth Procsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5504047836 Long: -117.019985252 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: <u>Vegetation is not strongly hydrophytic and no hydric soils were observed. Sampled area is not a wetland.</u>			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>None</u>					<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species      0      x 1 =      0 FACW species      10      x 2 =      20 FAC species      0      x 3 =      0 FACU species      5      x 4 =      20 UPL species      0      x 5 =      0 Column Totals:      15      (A)      40      (B) Prevalence Index = B/A = <u>2.7</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Deinandra fasciculata</u>		5	Yes	FACU	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Spergularia bocconi</u>		10	Yes	FACW	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>None</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>85</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 255

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/3	100					loamy sand	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: shovel refusal  
 Depth (inches): 8

Hydric Soil Present? Yes ☐ No ☒

Remarks: no redox observed

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 256  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5582272754 Long: -117.031184385 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		<u>0</u>	= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>4</u> (A) <u>13</u> (B) Prevalence Index = B/A = <u>3.25</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>      </u> )					
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
		<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Plantago elongata</u>		<u>1</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Deinandra fasciculata</u>		<u>1</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Glebionis coronaria</u>		<u>1</u>	<u>Yes</u>	<u>UPL</u>	
4. <u>Spergularia bocconi</u>		<u>1</u>	<u>Yes</u>	<u>FACW</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
		<u>4</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>None</u>					
2. <u>      </u>					
		<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>96</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. It does support one vernal pool plant indicator species (Plantago elongata).



## SOIL

Sampling Point: 256

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 257  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5579187701 Long: -117.03276405 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		<u>0</u>	= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>6</u> (A) <u>20</u> (B) Prevalence Index = B/A = <u>3.3</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>      </u> )					
1. <u>Baccharis salicifolia</u>		<u>1</u>	No	FAC	
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
		<u>1</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Matricaria discoidea</u>		<u>1</u>	Yes	FACU	
2. <u>Glebionis coronaria</u>		<u>1</u>	Yes	UPL	
3. <u>Medicago polymorpha</u>		<u>1</u>	Yes	FACU	
4. <u>Plantago elongata</u>		<u>1</u>	Yes	FACW	
5. <u>Crassula aquatica</u>		<u>1</u>	Yes	OBL	
6. <u>Festuca myuros</u>		<u>1</u>	Yes	FACU	
7. <u>      </u>					
8. <u>      </u>					
		<u>6</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>None</u>					
2. <u>      </u>					
		<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>94</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plantago elongata and Crassula aquatica).



## SOIL

Sampling Point: 257

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	No	X
----------------------	-----	----	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No    X    Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 258  
 Investigator(s): A. Smisek and K. Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5577660567 Long: -117.032992406 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>6</u> x 2 = <u>12</u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>19</u> x 5 = <u>95</u> Column Totals: <u>26</u> (A) <u>111</u> (B) Prevalence Index = B/A = <u>4.27</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
2. <u>Bromus madritensis</u>	<u>1</u>	<u>N</u>	<u>UPL</u>		
3. <u>Matricaria discoidea</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
4. <u>Glebionis coronaria</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>		
5. <u>Amblyopappus pusillus</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>		
6. <u>Schismus barbatus</u>	<u>3</u>	<u>N</u>	<u>UPL</u>		
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>74</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 258

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of San Diego fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 259  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.551988317 Long: -117.01839292 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year.					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)			
2.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)			
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.							
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>				Total % Cover of: <u>    </u> Multiply by:			
2.				OBL species	<u>1</u>	x 1 =	<u>1</u>
3.				FACW species	<u>52</u>	x 2 =	<u>104</u>
4.				FAC species	<u>21</u>	x 3 =	<u>63</u>
5.				FACU species	<u>    </u>	x 4 =	<u>0</u>
Total Cover: <u>    </u> %				UPL species	<u>1</u>	x 5 =	<u>5</u>
				Column Totals:	<u>75</u>	(A)	<u>173</u> (B)
				Prevalence Index = B/A = <u>2.31</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Psilocarphus brevissimus</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Spergularia bocconi</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Rumex crispus</u>	<u>1</u>	<u>No</u>	<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <u>Glebionis coronaria</u>	<u>1</u>	<u>No</u>	<u>UPL</u>				
6. <u>Juncus bufonius</u>	<u>2</u>	<u>No</u>	<u>FACW</u>				
7. <u>Festuca perennis</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>				
8. <u>Hordeum depressum</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>				
Total Cover: <u>75 %</u>							
Woody Vine Stratum							
1. <u>None</u>							
2.							
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>25 %</u>			% Cover of Biotic Crust <u>    </u> %				
				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>			
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).							



## SOIL

Sampling Point: 259

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5) (LRR C)  
☐ 1 cm Muck (A9) (LRR D)  
☐ Depleted Below Dark Surface (A11)  
☐ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F2)  
☐ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)  
☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☐ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.



## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)  
☐ High Water Table (A2)  
☐ Saturation (A3)  
☐ Water Marks (B1) (Nonriverine)  
☐ Sediment Deposits (B2) (Nonriverine)  
☐ Drift Deposits (B3) (Nonriverine)  
☒ Surface Soil Cracks (B6)  
☐ Inundation Visible on Aerial Imagery (B7)  
☐ Water-Stained Leaves (B9)  
☐ Salt Crust (B11)  
☒ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Plowed Soils (C6)  
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 260  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55213 Long: -117.01844 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Spergularia bocconi</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
4. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
5. <u>Hordeum depressum</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	
6. <u>Festuca perennis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
7. <u>      </u>				
8. <u>      </u>				
			<u>39</u> = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>61</u> % Cover of Biotic Crust <u>      </u>				
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).				



## SOIL

Sampling Point: 260

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/2	100					sandy loam	no redox
1-8	7.5YR 4/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>8</u>	

Remarks: compacted soils with lots of rock/cobble. No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Evidence of surface soil cracks, biotic crust, and aquatic invertebrates were all present at the time of the delineation, indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 261  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.552285 Long: -117.01840 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Psilocarphus brevissimus</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Plantago elongata</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
4. <u>Spergularia bocconi</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Lepidium latipes</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
6. <u>Lepidium nitidum</u>	<u>1</u>	<u>N</u>	<u>FAC</u>	
7. <u>Hordeum murinum</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
8. <u>      </u>				
			<u>60</u> = Total Cover	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				
2. <u>      </u>				
			<u>60</u> = Total Cover	
% Bare Ground in Herb Stratum <u>40</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: 261

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Evidence of surface soil cracks, biotic crust, and aquatic invertebrates were all present at the time of the delineation, indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 264  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5525686268 Long: -117.018402883 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)			
2.				Total Number of Dominant Species Across All Strata: <u>3</u> (B)			
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7 %</u> (A/B)			
4.							
Total Cover: <u>        </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>				Total % Cover of: <u>        </u> Multiply by: <u>        </u>			
2.				OBL species	<u>2</u>	x 1 =	<u>2</u>
3.				FACW species	<u>45</u>	x 2 =	<u>90</u>
4.				FAC species	<u>        </u>	x 3 =	<u>0</u>
5.				FACU species	<u>20</u>	x 4 =	<u>80</u>
Total Cover: <u>        </u> %				UPL species	<u>        </u>	x 5 =	<u>0</u>
				Column Totals:	<u>67</u>	(A)	<u>172</u> (B)
				Prevalence Index = B/A = <u>2.57</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Psilocarphus brevissimus</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Spergularia bocconi</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Crassula aquatica</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Lepidium latipes</u>	<u>2</u>	<u>No</u>	<u>FACW</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>No</u>	<u>OBL</u>				
6. <u>Hordeum murinum</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
7. <u>Plantago elongata</u>	<u>3</u>	<u>No</u>	<u>FACW</u>				
8.							
Total Cover: <u>67 %</u>							
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>			
1. <u>None</u>							
2.							
Total Cover: <u>        </u> %							
% Bare Ground in Herb Stratum <u>33 %</u>		% Cover of Biotic Crust <u>        </u> %					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Crassula aquatica, and Plantago elongata).							



## SOIL

Sampling Point: 264

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			
0-12	10YR 3/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Surface Water (A1)             | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input checked="" type="checkbox"/> Saturation (A3)                | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐

Depth (inches): 1

Water Table Present? Yes ☐ No ☒

Depth (inches):

Saturation Present? (includes capillary fringe) Yes ☒ No ☐

Depth (inches): 0

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water and evidence of surface soil cracks were present at the time of the delineation, which indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 263  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5524308345 Long: -117.018419072 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation ☒, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Yes Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? Yes (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0</u> (A/B)
1. <u>none</u>				
2. _____				
3. _____				
4. _____				
				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>70</u> x 3 = <u>210</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>72</u> (A) <u>214</u> (B) Prevalence Index = B/A = <u>2.97</u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: _____ )</b> 1. <u>none</u> 2. _____ 3. _____ 4. _____ 5. _____ = Total Cover				
<b>Herb Stratum (Plot size: _____ )</b> 1. <u>Festuca perennis</u> 70 Yes FAC 2. <u>Hordeum depressum</u> 2 No FACW 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 72 = Total Cover				
<b>Woody Vine Stratum (Plot size: _____ )</b> 1. <u>none</u> 2. _____ = Total Cover				
% Bare Ground in Herb Stratum <u>28</u> % Cover of Biotic Crust <u>0</u>				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____				

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 263

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	X	No
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Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- \_\_\_ Water Marks (B1) (**Riverine**)
- \_\_\_ Sediment Deposits (B2) (**Riverine**)
- \_\_\_ Drift Deposits (B3) (**Riverine**)
- \_\_\_ Drainage Patterns (B10)
- \_\_\_ Dry-Season Water Table (C2)
- \_\_\_ Thin Muck Surface (C7)
- \_\_\_ Crayfish Burrows (C8)
- \_\_\_ Saturation Visible on Aerial Imagery (C9)
- \_\_\_ Shallow Aquitard (D3)
- \_\_\_ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes    X    No      Depth (inches):      1

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?	Yes	X	No	Depth (inches):	0
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(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Surface water was present at the time of the delineation, and the presence of hydrophytic vegetation; both indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 264  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5525686268 Long: -117.018402883 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)			
2.				Total Number of Dominant Species Across All Strata: <u>3</u> (B)			
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7 %</u> (A/B)			
4.							
Total Cover: <u>        </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>				Total % Cover of: <u>        </u> Multiply by: <u>        </u>			
2.				OBL species	<u>2</u>	x 1 =	<u>2</u>
3.				FACW species	<u>45</u>	x 2 =	<u>90</u>
4.				FAC species	<u>        </u>	x 3 =	<u>0</u>
5.				FACU species	<u>20</u>	x 4 =	<u>80</u>
Total Cover: <u>        </u> %				UPL species	<u>        </u>	x 5 =	<u>0</u>
				Column Totals:	<u>67</u>	(A)	<u>172</u> (B)
				Prevalence Index = B/A = <u>2.57</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Psilocarphus brevissimus</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Spergularia bocconi</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Crassula aquatica</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Lepidium latipes</u>	<u>2</u>	<u>No</u>	<u>FACW</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
6. <u>Hordeum murinum</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>				
7. <u>Plantago elongata</u>	<u>3</u>	<u>No</u>	<u>FACW</u>				
8.							
Total Cover: <u>67 %</u>							
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>			
1. <u>None</u>							
2.							
Total Cover: <u>        </u> %							
% Bare Ground in Herb Stratum <u>33 %</u>		% Cover of Biotic Crust <u>        </u> %					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support four vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, Crassula aquatica, and Plantago elongata).							



## SOIL

Sampling Point: 264

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			
0-12	10YR 3/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Surface Water (A1)             | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input checked="" type="checkbox"/> Saturation (A3)                | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐

Depth (inches): 1

Water Table Present? Yes ☐ No ☒

Depth (inches):

Saturation Present? (includes capillary fringe) Yes ☒ No ☐

Depth (inches): 0

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water and evidence of surface soil cracks were present at the time of the delineation, which indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 265  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5529065543 Long: -117.018353509 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? Yes ☐ Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? Yes ☐ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0</u> (A/B)
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>30</u> x 2 = <u>60</u> FAC species <u>3</u> x 3 = <u>9</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>34</u> (A) <u>70</u> (B) Prevalence Index = B/A = <u>2.06</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
3. _____					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: _____ )					
1. <u>Spergularia bocconi</u>		<u>20</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Lepidium nitidum</u>		<u>1</u>	<u>No</u>	<u>FAC</u>	
3. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4. <u>Hordeum depressum</u>		<u>10</u>	<u>Yes</u>	<u>FACW</u>	
5. <u>Festuca perennis</u>		<u>2</u>	<u>No</u>	<u>FAC</u>	
6. _____					
7. _____					
8. _____					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
= Total Cover					
% Bare Ground in Herb Stratum <u>66</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 265

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	X	No
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Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**
- ☐ Sediment Deposits (B2) **(Riverine)**
- ☐ Drift Deposits (B3) **(Riverine)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒ Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 266  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5530771961 Long: -117.018346831 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? Yes ☐ Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? Yes ☐ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0</u> (A/B)
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>53</u> x 2 = <u>106</u> FAC species <u>30</u> x 3 = <u>90</u> FACU species _____ x 4 = <u>0</u> UPL species _____ x 5 = <u>0</u> Column Totals: <u>84</u> (A) <u>197</u> (B) Prevalence Index = B/A = <u>2.35</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
5. _____					
					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: _____ )					
1. <u>Rumex crispus</u>		<u>20</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Spergularia bocconi</u>		<u>2</u>	<u>No</u>	<u>FACW</u>	
3. <u>Hordeum depressum</u>		<u>40</u>	<u>Yes</u>	<u>FACW</u>	
4. <u>Eleocharis macrostachya</u>		<u>10</u>	<u>No</u>	<u>FACW</u>	
5. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
6. <u>Festuca perennis</u>		<u>10</u>	<u>No</u>	<u>FAC</u>	
7. _____					
8. _____					
					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
= Total Cover					
% Bare Ground in Herb Stratum <u>16</u> % Cover of Biotic Crust <u>0</u>					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 266

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 267  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5534387679 Long: -117.018349023 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? Yes ☐ Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? Yes ☐ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0</u> (A/B)
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = <u>0</u> FACW species <u>40</u> x 2 = <u>80</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species _____ x 4 = <u>0</u> UPL species _____ x 5 = <u>0</u> Column Totals: <u>50</u> (A) <u>110</u> (B) Prevalence Index = B/A = <u>2.20</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
3. _____					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. _____					
5. _____					
6. _____					
7. _____					
= Total Cover					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Herb Stratum</b> (Plot size: _____ )					
1. <u>Hordeum depressum</u>		<u>40</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Festuca perennis</u>		<u>10</u>	<u>Yes</u>	<u>FAC</u>	
3. _____					
4. _____					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
5. _____					
6. _____					
7. _____					
8. _____					
= Total Cover					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
3. _____					
= Total Cover					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
% Bare Ground in Herb Stratum <u>16</u> % Cover of Biotic Crust <u>0</u>					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 267

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 269  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5537532793 Long: -117.018505922 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)			
2.		<input type="checkbox"/>	<input type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>2</u> (B)			
3.		<input type="checkbox"/>	<input type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by: <u>    </u>			
2.		<input type="checkbox"/>	<input type="checkbox"/>	OBL species	<u>1</u>	x 1 =	<u>1</u>
3.		<input type="checkbox"/>	<input type="checkbox"/>	FACW species	<u>42</u>	x 2 =	<u>84</u>
4.		<input type="checkbox"/>	<input type="checkbox"/>	FAC species	<u>10</u>	x 3 =	<u>30</u>
5.		<input type="checkbox"/>	<input type="checkbox"/>	FACU species	<u>    </u>	x 4 =	<u>0</u>
Total Cover: <u>    </u> %				UPL species	<u>    </u>	x 5 =	<u>0</u>
				Column Totals:	<u>53</u>	(A)	<u>115</u> (B)
				Prevalence Index = B/A = <u>2.17</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <i>Lythrum hyssopifolia</i>	<u>1</u>	No	OBL	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <i>Spergularia bocconi</i>	<u>1</u>	No	FACW	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <i>Psilocarphus brevissimus</i>	<u>1</u>	No	FACW	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <i>Hordeum depressum</i>	<u>40</u>	Yes	FACW	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <i>Festuca perennis</i>	<u>10</u>	Yes	FAC				
6.		<input type="checkbox"/>	<input type="checkbox"/>				
7.		<input type="checkbox"/>	<input type="checkbox"/>				
8.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>53</u> %							
Woody Vine Stratum				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>47</u> %			% Cover of Biotic Crust <u>    </u> %				
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species ( <i>Psilocarphus brevissimus</i> ).							



## SOIL

Sampling Point: 269

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5) (LRR C)  
☐ 1 cm Muck (A9) (LRR D)  
☐ Depleted Below Dark Surface (A11)  
☐ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F2)  
☐ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)  
☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☒ Surface Water (A1)  
☐ High Water Table (A2)  
☒ Saturation (A3)  
☐ Water Marks (B1) (Nonriverine)  
☐ Sediment Deposits (B2) (Nonriverine)  
☐ Drift Deposits (B3) (Nonriverine)  
☒ Surface Soil Cracks (B6)  
☐ Inundation Visible on Aerial Imagery (B7)  
☐ Water-Stained Leaves (B9)  
☐ Salt Crust (B11)  
☒ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Plowed Soils (C6)  
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 1Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☒ No ☐ Depth (inches): 0Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water, evidence of surface soil cracks, and biotic crust were present at the time of the delineation, which all indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 272  
 Investigator(s): Andrew Smisek, Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5581820216 Long: -117.029092653 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present? Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. Vegetation is not strongly hydrophytic and no hydric soils were observed. Sampled area is not a wetland	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>6</u> x 2 = <u>12</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>17</u> (A) <u>53</u> (B) Prevalence Index = B/A = <u>3.12</u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Plantago elongata</u> 3 Yes FACW 2. <u>Juncus bufonius</u> 3 Yes FACW 3. <u>Crassula aquatica</u> 1 No OBL 4. <u>Deinandra fasciculata</u> 5 Yes FACU 5. <u>Lysimachia arvensis</u> 1 No FAC 6. <u>Erodium botrys</u> 1 No FACU 7. <u>Bromus madritensis</u> 1 No UPL 8. <u>Festuca myuros</u> 2 No FACU 17 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>83</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area supports a predominance of hydrophytic vegetation. It also supports two vernal pool plant indicator species (Plantago elongata and Crassula aquatica).				



## SOIL

Sampling Point: 272

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-0.5	10YR 3/2	100					Sandy Loam	
0.5-4	10YR 3/3	100					Sandy Loam	
4-6	10YR 3/2	100					Clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>Shovel Refusal</u> Depth (inches): <u>6</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No redox observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 273  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5519166852 Long: -117.024342428 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
		= Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>      </u> )			
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
		= Total Cover		
Herb Stratum	(Plot size: <u>      </u> )			
1. <u>Plagiobothrys acanthocarpus</u>		1	Yes	OBL
2. <u>Festuca myuros</u>		3	Yes	FACU
3. <u>Deinandra fasciculata</u>		1	Yes	FACU
4. <u>      </u>				
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
		5	= Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )			
1. <u>none</u>				
2. <u>      </u>				
		= Total Cover		
% Bare Ground in Herb Stratum <u>95</u>		% Cover of Biotic Crust <u>      </u>		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>1</u>	x 1 = <u>1</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>4</u>	x 4 = <u>16</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>5</u> (A)	<u>17</u> (B)

Prevalence Index = B/A = 3.4

**Hydrophytic Vegetation Indicators:**  
       Dominance Test is >50%  
       Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes        No X

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not have a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 273

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Although no surface water was present at the time of the delineation, evidence of a biotic crust indicate that the area supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 274  
 Investigator(s): JR Sundberg and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5520300184 Long: -117.024430406 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>6</u> x 4 = <u>24</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>8</u> (A) <u>28</u> (B) Prevalence Index = B/A = <u>3.5</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>No</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Juncus bufonius</u>		<u>1</u>	<u>No</u>	<u>FACW</u>	
3. <u>Erodium botrys</u>		<u>1</u>	<u>No</u>	<u>FACU</u>	
4. <u>Festuca myuros</u>		<u>4</u>	<u>Yes</u>	<u>FACU</u>	
5. <u>Bromus hordeaceus</u>		<u>1</u>	<u>No</u>	<u>FACU</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>92</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 274

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 3/2	99	5YR 4/6	1	C	RC	sandy clay	
1-6	7.5YR 4/3	99	10YR 5/6	1	C	RC	sand	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth (inches): <u>6</u>	

Remarks: Soils do not meet hydric soil indicator

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water was present at the time of the delineation along with evidence of biotic crust, indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 276  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55339362680 Long: -117.02292347000 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input type="checkbox"/>	<input type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.		<input type="checkbox"/>	<input type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by: <u>    </u>			
2.		<input type="checkbox"/>	<input type="checkbox"/>	OBL species	<u>1</u>	x 1 =	<u>1</u>
3.		<input type="checkbox"/>	<input type="checkbox"/>	FACW species	<u>1</u>	x 2 =	<u>2</u>
4.		<input type="checkbox"/>	<input type="checkbox"/>	FAC species	<u>95</u>	x 3 =	<u>285</u>
5.		<input type="checkbox"/>	<input type="checkbox"/>	FACU species	<u>    </u>	x 4 =	<u>0</u>
Total Cover: <u>    </u> %				UPL species	<u>    </u>	x 5 =	<u>0</u>
				Column Totals:	<u>97</u>	(A)	<u>288</u> (B)
				Prevalence Index = B/A = <u>2.97</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <i>Plagiobothrys acanthocarpus</i>	<u>1</u>	No	OBL	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <i>Psilocarphus brevissimus</i>	<u>1</u>	No	FACW	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <i>Festuca perennis</i>	<u>95</u>	Yes	FAC	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input type="checkbox"/>	<input type="checkbox"/>				
6.		<input type="checkbox"/>	<input type="checkbox"/>				
7.		<input type="checkbox"/>	<input type="checkbox"/>				
8.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>97 %</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>3 %</u>		% Cover of Biotic Crust <u>    </u> %					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species ( <i>Psilocarphus brevissimus</i> and <i>Plagiobothrys acanthocarpus</i> ).							



## SOIL

Sampling Point: 276

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		
					▼	▼		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils<sup>4</sup>:

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 277  
 Investigator(s): Beth Proscal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.552817906 Long: -117.018486607 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input type="checkbox"/>	<input type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.		<input type="checkbox"/>	<input type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by:			
2.		<input type="checkbox"/>	<input type="checkbox"/>	OBL species	<u>    </u>	x 1 =	<u>0</u>
3.		<input type="checkbox"/>	<input type="checkbox"/>	FACW species	<u>10</u>	x 2 =	<u>20</u>
4.		<input type="checkbox"/>	<input type="checkbox"/>	FAC species	<u>60</u>	x 3 =	<u>180</u>
5.		<input type="checkbox"/>	<input type="checkbox"/>	FACU species	<u>    </u>	x 4 =	<u>0</u>
Total Cover: <u>    </u> %				UPL species	<u>    </u>	x 5 =	<u>0</u>
				Column Totals:	<u>70</u>	(A)	<u>200</u> (B)
				Prevalence Index = B/A = <u>2.86</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <i>Hordeum depressum</i>	<u>10</u>	No	FACW	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <i>Festuca perennis</i>	<u>60</u>	Yes	FAC	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input type="checkbox"/>	<input type="checkbox"/>				
6.		<input type="checkbox"/>	<input type="checkbox"/>				
7.		<input type="checkbox"/>	<input type="checkbox"/>				
8.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>70 %</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>30 %</u>		% Cover of Biotic Crust <u>    </u> %					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 277

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (2 or more required)	
Primary Indicators (any one indicator is sufficient)				
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)		<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)		<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)			<input type="checkbox"/> Shallow Aquitard (D3)	
			<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b>				
Surface Water Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>	
Water Table Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): _____		
Saturation Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): _____		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and the presence of hydrophytic vegetation indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.				



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 278  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5525727168 Long: -117.018529913 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input type="checkbox"/>	<input type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.		<input type="checkbox"/>	<input type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by:			
2.		<input type="checkbox"/>	<input type="checkbox"/>	OBL species	<u>    </u>	x 1 =	<u>0</u>
3.		<input type="checkbox"/>	<input type="checkbox"/>	FACW species	<u>50</u>	x 2 =	<u>100</u>
4.		<input type="checkbox"/>	<input type="checkbox"/>	FAC species	<u>10</u>	x 3 =	<u>30</u>
5.		<input type="checkbox"/>	<input type="checkbox"/>	FACU species	<u>    </u>	x 4 =	<u>0</u>
Total Cover: <u>    </u> %				UPL species	<u>    </u>	x 5 =	<u>0</u>
				Column Totals:	<u>60</u>	(A)	<u>130</u> (B)
				Prevalence Index = B/A = <u>2.17</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <i>Hordeum depressum</i>	<u>50</u>	Yes	FACW	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <i>Festuca perennis</i>	<u>10</u>	No	FAC	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input type="checkbox"/>	<input type="checkbox"/>				
6.		<input type="checkbox"/>	<input type="checkbox"/>				
7.		<input type="checkbox"/>	<input type="checkbox"/>				
8.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>60 %</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>40 %</u>		% Cover of Biotic Crust <u>    </u> %					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 278

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Surface Water (A1)             | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input checked="" type="checkbox"/> Saturation (A3)                | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 1Water Table Present? Yes ☐ No ☒ Depth (inches):Saturation Present? (includes capillary fringe) Yes ☒ No ☐ Depth (inches): 0Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water was present at the time of the delineation, and the presence of hydrophytic vegetation; both indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 279  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5523811052 Long: -117.018384971 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>0</u> FACW species <u>50</u> x 2 = <u>100</u> FAC species <u>      </u> x 3 = <u>0</u> FACU species <u>      </u> x 4 = <u>0</u> UPL species <u>      </u> x 5 = <u>0</u> Column Totals: <u>50</u> (A) <u>100</u> (B) Prevalence Index = B/A = <u>2.00</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum depressum</u>		<u>50</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
% Bare Ground in Herb Stratum <u>50</u> % Cover of Biotic Crust <u>0</u>					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 279

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	X	No
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Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 280  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5521564462 Long: -117.018470271 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		<u>0</u>	= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>90</u> x 5 = <u>450</u> Column Totals: <u>94</u> (A) <u>460</u> (B) Prevalence Index = B/A = <u>4.89</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
		<u>0</u>	= Total Cover		
<b>Herb Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
2. <u>Avena sp.</u>		<u>90</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>Atriplex semibaccata</u>		<u>1</u>	<u>No</u>	<u>FAC</u>	
4. <u>Melilotus indicus</u>		<u>1</u>	<u>No</u>	<u>FACU</u>	
5. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>No</u>	<u>FACW</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
		<u>94</u>	= Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>None</u>					
2. <u>      </u>					
		<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>6</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 280

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?	Yes	No	Depth (inches):
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Saturation Present?	Yes	No	Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2.27.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 281  
 Investigator(s): Beth Proscal, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5518668359 Long: -117.018420382 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Juncus bufonius</u> 25 Yes FACW 2. <u>Lepidium latipes</u> 5 No FACW 3. <u>Spergularia bocconi</u> 17 Yes FACW 4. <u>Psilocarphus brevissimus</u> 1 No FACW 5. <u>Plantago elongata</u> 2 No FACW 6. <u>Plagiobothrys acanthocarpus</u> 1 No OBL 7. <u>      </u> 8. <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>49</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Psilocarphus brevissimus, Plantago elongata, and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 281

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 4/2	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal (rocks/compacted soils)</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>5</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u> (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust indicate that the area supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 282  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5518510293 Long: -117.018365062 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>0</u> FACW species <u>40</u> x 2 = <u>80</u> FAC species <u>15</u> x 3 = <u>45</u> FACU species <u>      </u> x 4 = <u>0</u> UPL species <u>      </u> x 5 = <u>0</u> Column Totals: <u>55</u> (A) <u>125</u> (B) Prevalence Index = B/A = <u>2.27</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u> )</b>				
1. <u>Distichlis spicata</u>	5	No	FAC	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Hordeum depressum</u>	40	Yes	FACW	
3. <u>Festuca perennis</u>	10	No	FAC	
4. <u>      </u>				
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
			55 = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>45</u> % Cover of Biotic Crust <u>0</u>				

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 282

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	X	No
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Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes    X    No      Depth (inches):      1

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?	Yes	X	No	Depth (inches):	0
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(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Surface water was present at the time of the delineation, and the presence of hydrophytic vegetation; both indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2.27.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 283  
 Investigator(s): Beth Proscal, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5514910365 Long: -117.018442163 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Spergularia bocconi</u>	<u>6</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
3. <u>Festuca perennis</u>	<u>2</u>	<u>Yes</u>	<u>FAC</u>	
4. <u>Lepidium latipes</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Lepidium nitidum</u>	<u>1</u>	<u>No</u>	<u>FAC</u>	
6. <u>Plantago elongata</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
7. <u>Juncus bufonius</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
8. <u>      </u>				
<u>13</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>87</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).



## SOIL

Sampling Point: 283

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>5</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of a biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2.27.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 284  
 Investigator(s): Beth Proscal, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5514452844 Long: -117.018443359 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>88</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>				
5. <u>      </u>				
= Total Cover				
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Spergularia bocconi</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Lythrum hyssopifolia</u>	<u>1</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Plantago elongata</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Lepidium nitidum</u>	<u>1</u>	<u>Y</u>	<u>FAC</u>	
5. <u>Glebionis coronaria</u>	<u>1</u>	<u>Y</u>	<u>UPL</u>	
6. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>Y</u>	<u>OBL</u>	
7. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
8. <u>Lepidium latipes</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
= Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>88</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Plantago elongata, Plagiobothrys acanthocarpus, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 284

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/3	98	7.5YR 4/4	2	C	M	loamy sand	
1-5	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>5</u>	

Remarks: Some redox features observed, but insufficient to meet a hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of a biotic crust and aquatic invertebrates both indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 289  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5473975095 Long: -117.017867524 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
Herb Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Plagiobothrys acanthocarpus</u>	<u>2</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Matricaria discoidea</u>	<u>1</u>	<u>No</u>	<u>FACU</u>	
3. <u>Spergularia bocconi</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>	
4. <u>Medicago polymorpha</u>	<u>1</u>	<u>No</u>	<u>FACU</u>	
5. <u>Glebionis coronaria</u>	<u>1</u>	<u>No</u>	<u>UPL</u>	
6. <u>Bromus madritensis</u>	<u>1</u>	<u>No</u>	<u>UPL</u>	
7. <u>      </u>				
8. <u>      </u>				
<u>11</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u> <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>none</u>				
2. <u>      </u>				
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>89</u>	% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 289

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust both indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 291  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.54858 Long: -117.01674 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Eleocharis macrostachya</u> 5 N FACW 2. <u>Festuca perennis</u> 80 Y FAC 3. <u>Bromus hordeaceus</u> 5 N FACU 4. <u>      </u> 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>48</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 291

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of water stained leaves supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 292  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.548518925 Long: -117.016717439 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>				
5. <u>      </u>				
= Total Cover				
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Plagiobothrys acanthocarpus</u>	<u>40</u>	<u>Yes</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>Festuca perennis</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	
3. <u>Medicago polymorpha</u>	<u>1</u>	<u>No</u>	<u>FACU</u>	
4. <u>Deinandra fasciculata</u>	<u>1</u>	<u>No</u>	<u>FACU</u>	
5. <u>      </u>				
6. <u>      </u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>				
8. <u>      </u>				
= Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>48</u> % Cover of Biotic Crust <u>      </u>				
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).				



## SOIL

Sampling Point: 292

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 4/4						clay loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>8</u>	

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 293  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5545644097 Long: -117.022773463 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		<u>0</u>	= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>24</u> (A) <u>94</u> (B) Prevalence Index = B/A = <u>3.92</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>      </u> )					
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
		<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
2. <u>Deinandra fasciculata</u>		<u>5</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Erodium botrys</u>		<u>15</u>	<u>Yes</u>	<u>FACU</u>	
4. <u>Lepidium nitidum</u>		<u>1</u>	<u>No</u>	<u>FAC</u>	
5. <u>Logfia gallica</u>		<u>1</u>	<u>No</u>	<u>UPL</u>	
6. <u>Bromus madritensis</u>		<u>1</u>	<u>No</u>	<u>UPL</u>	
7. <u>      </u>					
8. <u>      </u>					
		<u>24</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>None</u>					
2. <u>      </u>					
		<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>76</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 293

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?	Yes	No	Depth (inches):
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Saturation Present?	Yes	No	Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Only a small portion contains biotic crust, in a small basin within the vernal pool. Although no surface water was present at the time of the delineation, evidence of biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 294  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55434 Long: -117.01859 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>6</u> x 4 = <u>24</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>9</u> (A) <u>33</u> (B) Prevalence Index = B/A = <u>3.7</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Lepidium nitidum</u>		<u>1</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Mesembryanthemum nodiflorum</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Erodium cicutarium</u>		<u>1</u>	<u>Y</u>	<u>UPL</u>	
5. <u>Erodium botrys</u>		<u>1</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Hordeum murinum</u>		<u>4</u>	<u>Y</u>	<u>FACU</u>	
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>91</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 294

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 295  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55444850930 Long: -117.01998029100 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? Yes ☐ Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? Yes ☐ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0</u> (A/B)
1. <u>none</u>				
2. _____				
3. _____				
4. _____				
				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>3</u> x 1 = <u>3</u> FACW species <u>18</u> x 2 = <u>36</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>11</u> x 4 = <u>44</u> UPL species _____ x 5 = <u>0</u> Column Totals: <u>33</u> (A) <u>86</u> (B) Prevalence Index = B/A = <u>2.61</u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: _____)</b> 1. <u>none</u> 2. _____ 3. _____ 4. _____ 5. _____ = Total Cover				
<b>Herb Stratum (Plot size: _____)</b> 1. <u>Lythrum hyssopifolia</u> 1 No OBL 2. <u>Psilocarphus brevissimus</u> 15 Yes FACW 3. <u>Plagiobothrys acanthocarpus</u> 1 No OBL 4. <u>Spergularia bocconi</u> 3 No FACW 5. <u>Hordeum murinum</u> 10 Yes FACU 6. <u>Lepidium nitidum</u> 1 No FAC 7. <u>Erodium botrys</u> 1 No FACU 8. <u>Crassula aquatica</u> 1 No OBL 33 = Total Cover				
<b>Woody Vine Stratum (Plot size: _____)</b> 1. <u>none</u> 2. _____ = Total Cover				
% Bare Ground in Herb Stratum <u>67</u> % Cover of Biotic Crust <u>0</u>				<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Psilocarphus brevissimus, and Crassula aquatica).



## SOIL

Sampling Point: 295

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	X	No
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Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input checked="" type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes    X    No      Depth (inches):      1

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?	Yes	X	No	Depth (inches):	0
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(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Surface water was present at the time of the delineation, and the presence of hydrophytic vegetation; both indicating that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 296  
 Investigator(s): Andrew Smisek, Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5543353307 Long: -117.022184214 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>71</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				= Total Cover
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
				= Total Cover
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Plantago elongata</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Hordeum murinum</u>	<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Spergularia bocconi</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>Y</u>	<u>OBL</u>	
6. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
7. <u>Lepidium latipes</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
8. <u>      </u>				
				= Total Cover
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
				= Total Cover
% Bare Ground in Herb Stratum <u>89</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Plantago elongata, Plagiobothrys acanthocarpus, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 296

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/2.5	100					clay	no redox; soil very compact
4-18	10YR 4/3	100					sandy clay	no rdox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 297  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5543603734 Long: -117.022590252 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>12</u> x 5 = <u>60</u> Column Totals: <u>25</u> (A) <u>88</u> (B) Prevalence Index = B/A = <u>3.5</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
2. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
3. <u>Spergularia bocconi</u>		<u>10</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Glebionis coronaria</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
5. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Bromus rubens</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>Matricaria discoidea</u>		<u>10</u>	<u>Y</u>	<u>UPL</u>	
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>75</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 294

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?	Yes	No	Depth (inches):
----------------------	-----	----	-----------------

Saturation Present?	Yes	No	Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 298  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5543764218 Long: -117.022633559 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Spergularia bocconi</u> 30 Yes FACW 2. <u>Festuca perennis</u> 1 No FAC 3. <u>Psilocarphus brevissimus</u> 1 No FACW 4. <u>Plagiobothrys acanthocarpus</u> 1 No OBL 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 33 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>67</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 298

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/2	99	7.5YR 4/4	1			sandy clay	redox
2-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: redox observed; but insufficient amount within top layer (0-2") to meet a hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, a biotic crust, and aquatic invertebrates all indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 299  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5543837644 Long: -117.022682808 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Psilocarphus brevissimus</u> 1 No FACW 2. <u>Spergularia bocconi</u> 38 Yes FACW 3. <u>Plagiobothrys acanthocarpus</u> 1 No OBL 4. <u>      </u> 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 40 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>60</u> % Cover of Biotic Crust <u>      </u>				
<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).				



## SOIL

Sampling Point: 299

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	95	7.5 YR 4/6	5	C	M/RC	sandy clay	redox
3-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: depleted matrix observed in top soil layer

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, a biotic crust, and aquatic invertebrates all indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 300  
 Investigator(s): Andrew Smisek, Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5544258944 Long: -117.022644249 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>2</u> x 1 = <u>2</u> FACW species <u>4</u> x 2 = <u>8</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>8</u> x 4 = <u>32</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>14</u> (A) <u>42</u> (B) Prevalence Index = B/A = <u>3.0</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Plantago elongata</u>	<u>2</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Psilocarphus brevissimus</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
3. <u>Matricaria discoidea</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	
4. <u>Plagiobothrys acanthocarpus</u>	<u>2</u>	<u>Yes</u>	<u>OBL</u>	
5. <u>Spergularia bocconi</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
6. <u>Deinandra fasciculata</u>	<u>1</u>	<u>No</u>	<u>FACU</u>	
7. <u>Hordeum murinum</u>	<u>1</u>	<u>No</u>	<u>FACU</u>	
8. <u>Lamarckia aurea</u>	<u>1</u>	<u>No</u>	<u>FACU</u>	
<u>14</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>86</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Plantago elongata, Plagiobothrys acanthocarpus, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 300

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/2	100					sandy clay	no redox
2-18	10YR 4/2	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 301  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5544450281 Long: -117.022721497 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)			
2.				Total Number of Dominant Species Across All Strata: <u>8</u> (B)			
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0 %</u> (A/B)			
4.							
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>				Total % Cover of:      Multiply by:			
2.				OBL species	<u>3</u>	x 1 =	<u>3</u>
3.				FACW species	<u>5</u>	x 2 =	<u>10</u>
4.				FAC species	<u>1</u>	x 3 =	<u>3</u>
5.				FACU species	<u>2</u>	x 4 =	<u>8</u>
Total Cover: <u>    </u> %				UPL species		x 5 =	<u>0</u>
				Column Totals:	<u>11</u>	(A)	<u>24</u> (B)
				Prevalence Index = B/A = <u>2.18</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Crassula aquatica</u>	<u>1</u>	<u>Yes</u>	<u>OBL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Spergularia bocconi</u>	<u>3</u>	<u>Yes</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Lepidium latipes</u>	<u>2</u>	<u>Yes</u>	<u>FACW</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>Yes</u>	<u>FAC</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <u>Lythrum hyssopifolia</u>	<u>1</u>	<u>Yes</u>	<u>OBL</u>				
6. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>Yes</u>	<u>OBL</u>				
7. <u>Deinandra fasciculata</u>	<u>1</u>	<u>Yes</u>	<u>FACU</u>				
8. <u>Hordeum murinum</u>	<u>1</u>	<u>Yes</u>	<u>FACU</u>				
Total Cover: <u>11 %</u>							
Woody Vine Stratum				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
1. <u>None</u>							
2.				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>			
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>89 %</u>		% Cover of Biotic Crust <u>    </u> %					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Crassula aquatica).							



## SOIL

Sampling Point: 301

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                           | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and San Diego fairy shrimp indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 304  
 Investigator(s): \_\_\_\_\_ Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5567747472 Long: -117.025372404 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☐ No ☐  
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Wetland Hydrology Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
3. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0.0</u> % (A/B)
4. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Total Cover: _____ %					
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of:	Multiply by:
2. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	x 1 = <u>0</u>
3. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species	x 2 = <u>0</u>
4. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	x 3 = <u>0</u>
5. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species	x 4 = <u>24</u>
Total Cover: _____ %				UPL species	x 5 = <u>5</u>
Herb Stratum				Column Totals:	<u>7</u> (A) <u>29</u> (B)
1. <u>Deinandra fasciculata</u>	<u>5</u>	Yes	FACU	Prevalence Index = B/A = <u>4.14</u>	
2. <u>Festuca myuros</u>	<u>1</u>	No	FACU		
3. <u>Schismus barbatus</u>	<u>1</u>	No	UPL		
4. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Total Cover: <u>7</u> %					
Woody Vine Stratum				Hydrophytic Vegetation Indicators:	
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Dominance Test is >50%	
2. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>	
				<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
				<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.	
				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
% Bare Ground in Herb Stratum <u>93</u> %      % Cover of Biotic Crust _____ %					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 304

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%				
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5) (LRR C)  
☐ 1 cm Muck (A9) (LRR D)  
☐ Depleted Below Dark Surface (A11)  
☐ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F2)  
☐ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)  
☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☐ No ☒

Remarks: No soil pit was dug as San Diego fairy shrimp protocol surveys were being done concurrently and the sample point could potentially support a listed fairy shrimp species. Hydric soils were assumed not to be present due to lack of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)  
☐ High Water Table (A2)  
☐ Saturation (A3)  
☐ Water Marks (B1) (Nonriverine)  
☐ Sediment Deposits (B2) (Nonriverine)  
☐ Drift Deposits (B3) (Nonriverine)  
☒ Surface Soil Cracks (B6)  
☐ Inundation Visible on Aerial Imagery (B7)  
☐ Water-Stained Leaves (B9)  
☐ Salt Crust (B11)  
☐ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Plowed Soils (C6)  
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☐ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although evidence of surface soil cracks was observed, wetland hydrology was assumed not present due to lack of hydrophytic vegetation and hydric soils. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 306  
 Investigator(s): Andy Smisek and Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5551743373 Long: -117.022931139 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>		<input type="checkbox"/>	<input type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input type="checkbox"/>	<input type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.		<input type="checkbox"/>	<input type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>		<input type="checkbox"/>	<input type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by: <u>    </u>			
2.		<input type="checkbox"/>	<input type="checkbox"/>	OBL species	<u>1</u>	x 1 =	<u>1</u>
3.		<input type="checkbox"/>	<input type="checkbox"/>	FACW species	<u>1</u>	x 2 =	<u>2</u>
4.		<input type="checkbox"/>	<input type="checkbox"/>	FAC species	<u>5</u>	x 3 =	<u>15</u>
5.		<input type="checkbox"/>	<input type="checkbox"/>	FACU species	<u>1</u>	x 4 =	<u>4</u>
Total Cover: <u>    </u> %				UPL species	<u>    </u>	x 5 =	<u>0</u>
				Column Totals:	<u>8</u>	(A)	<u>22</u> (B)
				Prevalence Index = B/A = <u>2.75</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	No	OBL	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Festuca perennis</u>	<u>5</u>	Yes	FAC	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Erodium botrys</u>	<u>1</u>	No	FACU	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Spergularia bocconi</u>	<u>1</u>	No	FACW	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input type="checkbox"/>	<input type="checkbox"/>				
6.		<input type="checkbox"/>	<input type="checkbox"/>				
7.		<input type="checkbox"/>	<input type="checkbox"/>				
8.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>8</u> %				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <u>None</u>		<input type="checkbox"/>	<input type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>92 %</u>		% Cover of Biotic Crust <u>    </u> %					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).							



## SOIL

Sampling Point: 306

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%				
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 307  
 Investigator(s): Andrew Smisek, Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5551340824 Long: -117.022812306 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				= Total Cover
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>7</u> x 2 = <u>14</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>10</u> (A) <u>27</u> (B) Prevalence Index = B/A = <u>2.7</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
				= Total Cover
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Plagiobothrys acanthocarpus</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Spergularia bocconi</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Hordeum murinum</u>	<u>1</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Schismus barbatus</u>	<u>1</u>	<u>Y</u>	<u>UPL</u>	
6. <u>Plantago elongata</u>	<u>1</u>	<u>Y</u>	<u>FACW</u>	
7. <u>      </u>				
8. <u>      </u>				
				= Total Cover
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
				= Total Cover
% Bare Ground in Herb Stratum <u>90</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Plantago elongata).



## SOIL

Sampling Point: 307

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 3/2	99	7.5YR 4/4	1	C	M	sandy clay	
1-6	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>6</u>	

Remarks: Redox features only in top 1" but insufficient to meet hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 309  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5531764682 Long: -117.021305639 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>4</u> x 3 = <u>12</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>11</u> (A) <u>38</u> (B) Prevalence Index = B/A = <u>3.5</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
2. <u>Lepidium nitidum</u>		1	No	FAC	
3. <u>Hordeum murinum</u>		4	Yes	FACU	
4. <u>Erodium botrys</u>		1	No	FACU	
5. <u>Mesembryanthemum nodiflorum</u>		1	No	FACU	
6. <u>Festuca perennis</u>		2	Yes	FAC	
7. <u>Amsinckia menziesii</u>		1	No	UPL	
8. <u>      </u>					
					11 = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>89</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 309

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 310  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5527606754 Long: -117.021023179 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>16</u> x 4 = <u>64</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals: <u>23</u> (A) <u>89</u> (B) Prevalence Index = B/A = <u>3.9</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Medicago polymorpha</u>		<u>1</u>	No	FACU	
2. <u>Festuca perennis</u>		<u>2</u>	No	FAC	
3. <u>Bromus madritensis</u>		<u>3</u>	No	UPL	
4. <u>Bromus hordeaceus</u>		<u>15</u>	Yes	FACU	
5. <u>Plantago elongata</u>		<u>1</u>	No	FACW	
6. <u>Lepidium latipes</u>		<u>1</u>	No	FACW	
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>77</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plantago elongata).



## SOIL

Sampling Point: 310

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust both indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 311  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5500431888 Long: -117.009714472 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u> )</b>				
1. <u>Eleocharis macrostachya</u>	4	Yes	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Xanthium strumarium</u>	1	No	FAC	
3. <u>Festuca perennis</u>	5	Yes	FAC	
4. <u>Juncus bufonius</u>	1	No	FACW	
5. <u>Brassica nigra</u>	1	No	UPL	
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
			12 = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>88</u> % Cover of Biotic Crust <u>      </u>				

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 311

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input checked="" type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input checked="" type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Surface water was present at the time of the delineation, as well as evidence of saturation, drift deposits, biotic crust, aquatic invertebrates, and the presence of hydrophytic vegetation, all indicating that the area supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 314  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5506758855 Long: -117.020196142 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species      0      x 1 =      0 FACW species      10      x 2 =      20 FAC species      2      x 3 =      6 FACU species      4      x 4 =      16 UPL species      0      x 5 =      0 Column Totals:      16      (A)      42      (B) Prevalence Index = B/A = <u>2.6</u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u> )</b>				
1. <u>Hordeum murinum</u>	3	No	FACU	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Hordeum depressum</u>	10	Yes	FACW	
3. <u>Festuca perennis</u>	2	No	FAC	
4. <u>Medicago polymorpha</u>	1	No	FACU	
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
			16 = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>84</u> % Cover of Biotic Crust <u>      </u>				

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 314

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 3/3	100					loamy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>6</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>          </u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>          </u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>          </u> (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 316  
 Investigator(s): Andrew Smisek and Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C-Mediterranean California Lat: 32.5497122128 Long: -117.017821141 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>6</u> x 1 = <u>6</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>40</u> x 3 = <u>120</u> FACU species <u>41</u> x 4 = <u>164</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>88</u> (A) <u>295</u> (B) Prevalence Index = B/A = <u>3.4</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>6</u>	<u>No</u>	<u>OBL</u>	
2. <u>Erodium botrys</u>		<u>10</u>	<u>No</u>	<u>FACU</u>	
3. <u>Festuca perennis</u>		<u>40</u>	<u>Yes</u>	<u>FAC</u>	
4. <u>Sonchus oleraceus</u>		<u>1</u>	<u>No</u>	<u>UPL</u>	
5. <u>Deinandra fasciculata</u>		<u>1</u>	<u>No</u>	<u>FACU</u>	
6. <u>Bromus hordeaceus</u>		<u>30</u>	<u>Yes</u>	<u>FACU</u>	
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>90</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area does not support a predominance of hydrophytic vegetation. It supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 316

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 317  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5496639944 Long: -117.014509838 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		<u>0</u>	= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>3</u> x 3 = <u>9</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>8</u> (A) <u>28</u> (B) Prevalence Index = B/A = <u>3.5</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>      </u> )					
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
		<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Centaurea melitensis</u>		<u>1</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Hordeum murinum</u>		<u>1</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Medicago polymorpha</u>		<u>1</u>	<u>Yes</u>	<u>FACU</u>	
4. <u>Sonchus oleraceus</u>		<u>1</u>	<u>Yes</u>	<u>UPL</u>	
5. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>Yes</u>	<u>OBL</u>	
6. <u>Festuca perennis</u>		<u>3</u>	<u>Yes</u>	<u>FAC</u>	
7. <u>      </u>					
8. <u>      </u>					
		<u>8</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>None</u>					
2. <u>      </u>					
		<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>92</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 317

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No redox features observed

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes X No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: March 3, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 318  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.5518312924 Long: -117.015123142 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>9</u> x 4 = <u>36</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>30</u> (A) <u>101</u> (B) Prevalence Index = B/A = <u>3.37</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca perennis</u>		<u>20</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Avena sp.</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
3. <u>Hordeum murinum</u>		<u>9</u>	<u>Y</u>	<u>FACU</u>	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>70</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. No ACOE vernal pool indicator species were present within the basin.



## SOIL

Sampling Point: 318

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks and the presence of fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 322  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5541820509 Long: -117.015585139 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>				
5. <u>      </u>				
= Total Cover				
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Festuca perennis</u>	<u>70</u>	<u>Yes</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>Hordeum murinum</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
3. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	
4. <u>Lepidium latipes</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>      </u>				
6. <u>      </u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>				
8. <u>      </u>				
= Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>18</u> % Cover of Biotic Crust <u>      </u>				
% Bare Ground in Woody Vine Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 322

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	100					clay	no redox
4-18	10YR 4/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 323  
 Investigator(s): Beth Proscal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5543304827 Long: -117.015091849 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and is considered to meet the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>6</u> (A) <u>14</u> (B) Prevalence Index = B/A = <u>2.3</u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Plagiobothrys acanthocarpus</u> 3 No OBL 2. <u>Hordeum murinum</u> 30 Yes FACU 3. <u>Festuca perennis</u> 40 Yes FAC 4. <u>Plantago elongata</u> 1 No FACW 5. <u>Psilocarphus brevissimus</u> 1 No FACW 6. <u>Lepidium latipes</u> 1 No FACW 7. <u>      </u> 8. <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>24</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Plantago elongata, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 323

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust both indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 324  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5542377382 Long: -117.01518034 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input type="checkbox"/>	<input type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.		<input type="checkbox"/>	<input type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by:			
2.		<input type="checkbox"/>	<input type="checkbox"/>	OBL species	x 1 =	<u>0</u>	
3.		<input type="checkbox"/>	<input type="checkbox"/>	FACW species	x 2 =	<u>0</u>	
4.		<input type="checkbox"/>	<input type="checkbox"/>	FAC species	x 3 =	<u>225</u>	
5.		<input type="checkbox"/>	<input type="checkbox"/>	FACU species	x 4 =	<u>20</u>	
Total Cover: <u>    </u> %				UPL species	x 5 =	<u>0</u>	
				Column Totals:	<u>80</u> (A)	<u>245</u> (B)	
				Prevalence Index = B/A = <u>3.06</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <i>Festuca perennis</i>	75	Yes	FAC	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <i>Hordeum murinum</i>	5	No	FACU	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input type="checkbox"/>	<input type="checkbox"/>				
6.		<input type="checkbox"/>	<input type="checkbox"/>				
7.		<input type="checkbox"/>	<input type="checkbox"/>				
8.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>80 %</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <i>None</i>		<input type="checkbox"/>	<input type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input type="checkbox"/>	<input type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>20 %</u>		% Cover of Biotic Crust <u>    </u> %					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 324

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input checked="" type="checkbox"/> Water-Stained Leaves (B9)      |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, water-stained leaves, and the presence of hydrophytic vegetation indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 325  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5542101438 Long: -117.015059621 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by:			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	x 1 =	<u>0</u>	
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species	x 2 =	<u>0</u>	
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	x 3 =	<u>240</u>	
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species	x 4 =	<u>0</u>	
Total Cover: <u>    </u> %				UPL species	x 5 =	<u>0</u>	
				Column Totals:	<u>80</u> (A)	<u>240</u> (B)	
				Prevalence Index = B/A = <u>3.00</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Festuca perennis</u>	<u>80</u>	<u>Yes</u>	<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
6.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
7.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
8.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>80 %</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>20 %</u>		% Cover of Biotic Crust <u>    </u> %					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 325

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input checked="" type="checkbox"/> Water-Stained Leaves (B9)      |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of water-stained leaves and the presence of hydrophytic vegetation indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: March 3, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 326  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.5538140179 Long: -117.014167368 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																					
1. <u>none</u>					Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																					
2. <u>      </u>																										
3. <u>      </u>																										
4. <u>      </u>																										
				= Total Cover																						
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td><u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species</td> <td><u>25</u></td> <td>x 4 = <u>100</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>30</u> (A)</td> <td><u>115</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.8</u>	Total % Cover of:		Multiply by:	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>5</u>	x 3 = <u>15</u>	FACU species	<u>25</u>	x 4 = <u>100</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals:	<u>30</u> (A)	<u>115</u> (B)
Total % Cover of:		Multiply by:																								
OBL species	<u>0</u>	x 1 = <u>0</u>																								
FACW species	<u>0</u>	x 2 = <u>0</u>																								
FAC species	<u>5</u>	x 3 = <u>15</u>																								
FACU species	<u>25</u>	x 4 = <u>100</u>																								
UPL species	<u>0</u>	x 5 = <u>0</u>																								
Column Totals:	<u>30</u> (A)	<u>115</u> (B)																								
1. <u>none</u>																										
2. <u>      </u>																										
3. <u>      </u>																										
4. <u>      </u>																										
5. <u>      </u>																										
				= Total Cover																						
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																					
1. <u>Festuca perennis</u>		<u>5</u>	<u>N</u>	<u>FAC</u>																						
2. <u>Bromus hordeaceus</u>		<u>25</u>	<u>Y</u>	<u>FACU</u>																						
3. <u>      </u>																										
4. <u>      </u>																										
5. <u>      </u>																										
6. <u>      </u>																										
7. <u>      </u>																										
8. <u>      </u>																										
				<u>30</u> = Total Cover																						
Woody Vine Stratum	(Plot size: <u>      </u> )																									
1. <u>none</u>																										
2. <u>      </u>																										
				<u>30</u> = Total Cover																						
% Bare Ground in Herb Stratum <u>70</u> % Cover of Biotic Crust <u>      </u>																										

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. No ACOE vernal pool indicator species were present within the basin.



## SOIL

Sampling Point: 326

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of surface soil cracks, water stained leaves, and the presence of fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 327  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55214 Long: -117.01510 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>None</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>        </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <i>None</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of:			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Multiply by:			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	<u>1</u>	x 1 =	<u>1</u>
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species		x 2 =	<u>0</u>
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	<u>51</u>	x 3 =	<u>153</u>
Total Cover: <u>        </u> %				FACU species	<u>8</u>	x 4 =	<u>32</u>
				UPL species		x 5 =	<u>0</u>
				Column Totals:	<u>60</u>	(A)	<u>186</u> (B)
				Prevalence Index = B/A = <u>3.10</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <i>Festuca perennis</i>	<u>50</u>	Yes	FAC	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <i>Medicago polymorpha</i>	<u>1</u>	No	FAC	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <i>Hordeum murinum</i>	<u>8</u>	No	FACU	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <i>Plagiobothrys acanthocarpus</i>	<u>1</u>	No	OBL	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
6.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
7.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
8.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>60 %</u>							
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <i>None</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>        </u> %							
% Bare Ground in Herb Stratum <u>40 %</u> % Cover of Biotic Crust <u>        </u> %							
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species ( <i>Plagiobothrys acanthocarpus</i> ).							



## SOIL

Sampling Point: 327

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%				
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>			
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils<sup>4</sup>:

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Olivenhain cobbly loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2.27.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 328  
 Investigator(s): Beth Proscal, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5513047403 Long: -117.018394068 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and is considered to meet the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Plagiobothrys acanthocarpus</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Juncus bufonius</u>	<u>15</u>	<u>No</u>	<u>FACW</u>	
3. <u>Festuca perennis</u>	<u>60</u>	<u>Yes</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
4. <u>Atriplex semibaccata</u>	<u>1</u>	<u>No</u>	<u>FAC</u>	
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
= Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>4</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 328

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 329  
 Investigator(s): Andrew Smisek, Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5543926409 Long: -117.022554357 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		10	Yes	OBL	
2. <u>Psilocarphus brevissimus</u>		1	No	FACW	
3. <u>Plantago elongata</u>		1	No	FACW	
4. <u>Spergularia bocconi</u>		2	No	FACW	
5. <u>Deinandra fasciculata</u>		1	No	FACU	
6. <u>Hordeum murinum</u>		1	No	FACU	
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>84</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Plagiobothrys acanthocarpus, Psilocarphus brevissimus, and Plantago elongata).



## SOIL

Sampling Point: 329

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.3.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 330  
 Investigator(s): Andrew Smisek, Katy Chappaz Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5543561358 Long: -117.022232714 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
Herb Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plantago elongata</u>	8	Yes	FACW	
2. <u>Deinandra fasciculata</u>	1	No	FACU	
3. <u>Plagiobothrys acanthocarpus</u>	1	No	OBL	
4. <u>Lepidium latipes</u>	1	No	FACW	
5. <u>Matricaria discoidea</u>	1	No	FACU	
6. <u>Sonchus asper</u>	1	No	FAC	
7. <u>Psilocarphus brevissimus</u>	1	No	FACW	
8. <u>Hordeum murinum</u>	1	No	FACU	
			15 = Total Cover	
Woody Vine Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>85</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports three vernal pool plant indicator species (Plantago elongata, Plagiobothrys acanthocarpus, and Psilocarphus brevissimus).



## SOIL

Sampling Point: 330

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/2	99	7.5YR 4/4	1	C	RC	clay	
1-18	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: redox observed in top 1" only, insufficient to meet a hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 331  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5523043141 Long: -117.023263102 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year. <span style="float: right;">+</span>					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>None</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>2</u> (B)			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <i>None</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by: <u>    </u>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	<u>1</u>	x 1 =	<u>1</u>
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species	<u>4</u>	x 2 =	<u>8</u>
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	<u>4</u>	x 3 =	<u>12</u>
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species	<u>1</u>	x 4 =	<u>4</u>
Total Cover: <u>    </u> %				UPL species	<u>1</u>	x 5 =	<u>5</u>
				Column Totals:	<u>11</u>	(A)	<u>30</u> (B)
				Prevalence Index = B/A = <u>2.73</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <i>Psilocarphus brevissimus</i>	<u>4</u>	Yes	FACW	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <i>Plagiobothrys acanthocarpus</i>	<u>1</u>	No	OBL	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <i>Hordeum murinum</i>	<u>1</u>	No	FACU	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <i>Festuca perennis</i>	<u>4</u>	Yes	FAC	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <i>Glebionis coronaria</i>	<u>1</u>	No	UPL				
6.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
7.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
8.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>11 %</u>							
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>			
1. <i>None</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>89 %</u>			% Cover of Biotic Crust <u>    </u> %				
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support two vernal pool plant indicator species ( <i>Psilocarphus brevissimus</i> and <i>Plagiobothrys acanthocarpus</i> ).							



## SOIL

Sampling Point: 331

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			
						<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Olivenhain cobbly loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/14/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 340  
 Investigator(s): Beth Procsal and Anna Leavitt Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55498 Long: -117.02626 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>				
5. <u>      </u>				
= Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Psilocarphus brevissimus</u>	<u>7</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>Deiandra fasciculata</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Mesembryanthemum nodiflorum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Lepidium nitidum</u>	<u>1</u>	<u>N</u>	<u>FAC</u>	
5. <u>      </u>				
6. <u>      </u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>				
8. <u>      </u>				
= Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).				



## SOIL

Sampling Point: 340

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 1	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 0	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): 0	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Evidence of surface water and hydrophytic vegetation both indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 346  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.029 dd Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		<u>0</u>	= Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>0</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
		<u>0</u>	= Total Cover		
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
		<u>0</u>	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
			= Total Cover		
% Bare Ground in Herb Stratum <u>100</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Basin does not support vegetation. No vernal pool indicator plants were present within the basin.



## SOIL

Sampling Point: 346

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 347  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.029 dd Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology X naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. The vegetation and hydrology of the seasonal depression are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>100</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Depression does not support vegetation due to location within a dirt road. No vernal pool indicator plants were present within the basin.



## SOIL

Sampling Point: 347

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           | <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR C</b> )       |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       | <input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR B</b> )      |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   | <input type="checkbox"/> Reduced Vertic (F18)                  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   | <input type="checkbox"/> Red Parent Material (TF2)             |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       | <input checked="" type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |  |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |  |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |  |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |  |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |  |
- <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problem area

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	X	No
----------------------	-----	---	----

Remarks: No soil pit was dug due to the sample area having the potential to support a listed fairy shrimp species. Hydric soils were assumed to be present due the soil type being listed on the Hydric Soils list.

## HYDROLOGY

### Wetland Hydrology Indicators:

**Secondary Indicators (2 or more required)**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              | <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> ) |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            | <input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )    |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input type="checkbox"/> Drainage Patterns (B10)                    |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input type="checkbox"/> Dry-Season Water Table (C2)                |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Thin Muck Surface (C7)                     |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                      |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)  |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Shallow Aquitard (D3)                      |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    | <input type="checkbox"/> FAC-Neutral Test (D5)                      |

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug due to the fact that listed fairy shrimp species have the potential to be present and to protect the integrity of the basin to hold water. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 348  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.029 dd Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>60</u> x 5 = <u>300</u> Column Totals: <u>80</u> (A) <u>360</u> (B) Prevalence Index = B/A = <u>4.5</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Deinandra fasciculata</u>		60	Yes	UPL	
2. <u>Mesembryanthemum nodiflorum</u>		20	Yes	FAC	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					80 = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>      </u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>20</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: No vernal pool indicator plants were present within the basin.



## SOIL

Sampling Point: 348

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, a biotic crust (algae), and invertebrate eggs indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 349  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.028 dd Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>20</u> x 5 = <u>100</u> Column Totals: <u>30</u> (A) <u>140</u> (B) Prevalence Index = B/A = <u>4.7</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Deinandra fasciculata</u>		<u>20</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Mesembryanthemum nodiflorum</u>		<u>10</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>70</u> % Cover of Biotic Crust <u>      </u>					

Remarks: No vernal pool indicator plants were present within the basin.



## SOIL

Sampling Point: 349

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust (algae) indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 350  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.028 dd Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>15</u> (A) <u>65</u> (B) Prevalence Index = B/A = <u>4.3</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Deinandra fasciculata</u>		<u>5</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Mesembryanthemum nodiflorum</u>		<u>10</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
15					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>      </u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>85</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: No vernal pool indicator plants were present within the basin.



## SOIL

Sampling Point: 350

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust (algae) indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 351  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.028 dd Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>10</u> (A) <u>40</u> (B) Prevalence Index = B/A = <u>4.0</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Deinandra fasciculata</u>		5	Yes	UPL	
2. <u>Mesembryanthemum nodiflorum</u>		5	Yes	FAC	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					10 = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>      </u>					
2. <u>      </u>					
% Bare Ground in Herb Stratum <u>85</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: No vernal pool indicator plants were present within the basin.



## SOIL

Sampling Point: 351

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust (algae) indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 352  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.027 dd Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		60	Yes	FACW	
2. <u>Deinandra fasciculata</u>		5	No	UPL	
3. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>35</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (*Psilocarphus brevissimus*).



## SOIL

Sampling Point: 352

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
								See below.

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust (algae) indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 353  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.027 dd Datum: \_\_\_\_\_  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation X, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Yes \_\_\_\_\_ Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? Yes \_\_\_\_\_ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No _____		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>35</u> x 5 = <u>175</u> Column Totals: <u>45</u> (A) <u>215</u> (B) Prevalence Index = B/A = <u>4.7</u>
2. _____					
3. _____					
4. _____					
5. _____					
					= Total Cover
<b>Herb Stratum</b> (Plot size: _____ )					
1. <u>Brassica nigra</u>		<u>30</u>	<u>Yes</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Mesembryanthemum nodiflorum</u>		<u>10</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Deinandra fasciculata</u>		<u>5</u>	<u>No</u>	<u>UPL</u>	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. _____					<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
2. _____					
					= Total Cover
% Bare Ground in Herb Stratum <u>55</u> % Cover of Biotic Crust _____					

Remarks: No vernal pool indicator plants were present within the basin.



## SOIL

Sampling Point: 353

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <u>X</u>
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____	Yes <u>X</u> No _____
Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____	
Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust (algae) indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 354  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.027 dd Datum: NAD 83  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>40</u> x 5 = <u>200</u> Column Totals: <u>50</u> (A) <u>240</u> (B) Prevalence Index = B/A = <u>4.8</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
= Total Cover					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Brassica nigra</u>	<u>40</u>	<u>Yes</u>	<u>UPL</u>		
2. <u>Deinandra fasciculata</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>		
3. <u>      </u>					
4. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>50</u> % Cover of Biotic Crust <u>      </u>					

Remarks: vegetation is not hydrophytic



## SOIL

Sampling Point: 354

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust (algae) indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 355  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.027 dd Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>40</u> x 4 = <u>160</u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>40</u> (A) <u>160</u> (B) Prevalence Index = B/A = <u>4.0</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Deinandra fasciculata</u>		<u>30</u>	<u>Yes</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Mesembryanthemum nodiflorum</u>		<u>10</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>60</u> % Cover of Biotic Crust <u>      </u>					

Remarks: No vernal pool indicator plants were present within the basin.



## SOIL

Sampling Point: 355

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <u>X</u>
Depth (inches): _____	

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____	Yes <u>X</u> No _____
Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____	
Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust (algae) indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug. As these pools were added to the project development footprint after the 2019/2020 wet season fairy shrimp surveys were conducted, the presence of San Diego fairy shrimp is assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego / San Diego Sampling Date: July 13, 2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 356  
 Investigator(s): G. Scheid Section, Township, Range: Imperial Beach Sec. 31 T18S R1W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.557 dd Long: -117.027 dd Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam NWI classification: Depression

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>25</u> x 5 = <u>125</u> Column Totals: <u>35</u> (A) <u>155</u> (B) Prevalence Index = B/A = <u>4.4</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Deinandra fasciculata</u>		<u>15</u>	<u>Yes</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Mesembryanthemum nodiflorum</u>		<u>10</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Glebionis coronaria</u>		<u>10</u>	<u>Yes</u>	<u>UPL</u>	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>65</u> % Cover of Biotic Crust <u>      </u>					

Remarks: No vernal pool indicator plants were present within the basin.



## SOIL

Sampling Point: 356

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
								See below.

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust (algae) indicate that the area ponds water. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 19, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 357-WET  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.56 Long: -117.02 Datum: NAD83  
 Soil Map Unit Name: Stockpen gravelly clay loam, 2-5% slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1.					
2.					
3.					
4.					
				= Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1.					
2.					
3.					
4.					
5.					
				= Total Cover	
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
				= Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1.					
2.					
				0 = Total Cover	
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>0</u>			

Remarks: This area lacks vegetation cover



## SOIL

Sampling Point: 357-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	100					sandy clay	no redox; concrete + leaf litter
4-18	7.5YR 3/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: no hydric soil indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: no sufficient signs of wetland hydrology observed



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 19, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 358-WET  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.56 Long: -117.02 Datum: NAD83  
 Soil Map Unit Name: Stockpen gravelly clay loam, 2-5% slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
			= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )				
1. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
			= Total Cover	
<b>Herb Stratum</b> (Plot size: _____ )				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
			= Total Cover	
<b>Woody Vine Stratum</b> (Plot size: _____ )				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. _____	_____	_____	_____	
			0 = Total Cover	
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		0		

Remarks: this area lacks vegetation cover



## SOIL

Sampling Point: 358-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/3	100					sandy clay	no redox
4-10	10YR 4/4	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal (boulder)</u> Depth (inches): <u>10</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Remarks: no hydric soil indicators observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: surface soil cracking observed



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 19, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 359-WET  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.56 Long: -117.02 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30-50% slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				
1.					
2.					
3.					
4.					
5.					
		= Total Cover			<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum	(Plot size: <u>      </u> )				
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
		= Total Cover			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum	(Plot size: <u>      </u> )				
1.					
2.					
		0 = Total Cover			<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>0</u>			

Remarks: this area lacks vegetation cover



## SOIL

Sampling Point: 359-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 4/3	100					sandy clay	no redox; rock + organic
12-18	10YR 3/1	100					sandy clay	no redox; asphalt, debris, fill soil

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <u>X</u>
Depth (inches): _____	

Remarks: no hydric soil indicators observed; first layer apperas to be fill soil, second layer includes asphalt

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes _____ No <u>X</u> Depth (inches): _____	Yes <u>X</u> No _____
Water Table Present?	Yes _____ No <u>X</u> Depth (inches): _____	
Saturation Present?	Yes _____ No <u>X</u> Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: surface soil cracks observed. This feature is known to pond after rain events, although no surface water was observed at the time of this survey.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 19, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 361-WET  
 Investigator(s): Beth Proccsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.56 Long: -117.02 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30-50% slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1.					
2.					
3.					
4.					
5.					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1.	<u>Mesembryanthemum nodiflorum</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
					= Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1.					
2.					
					0 = Total Cover
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Vegetation cover is less than 5% and comprised of upland plants.



## SOIL

Sampling Point: 361-WET

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- \_\_\_ Histosol (A1)
- \_\_\_ Histic Epipedon (A2)
- \_\_\_ Black Histic (A3)
- \_\_\_ Hydrogen Sulfide (A4)
- \_\_\_ Stratified Layers (A5) (**LRR C**)
- \_\_\_ 1 cm Muck (A9) (**LRR D**)
- \_\_\_ Depleted Below Dark Surface (A11)
- \_\_\_ Thick Dark Surface (A12)
- \_\_\_ Sandy Mucky Mineral (S1)
- \_\_\_ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: shovel refusal (cobble)

Depth (inches): 12

Hydric Soil Present?	Yes	No	X
----------------------	-----	----	---

Remarks: no hydric soil indicators observed

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) **(Nonriverine)**
- ☐ Sediment Deposits (B2) **(Nonriverine)**
- ☐ Drift Deposits (B3) **(Nonriverine)**
- ☒ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)

☐ Salt Crust (B11)  
☐ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Tilled Soils (C6)  
☐ Thin Muck Surface (C7)  
☐ Other (Explain in Remarks)

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**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Water Table Present?      Yes      No    X    Depth (inches):

Saturation Present? Yes      No X Depth (inches):       
(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: surface soil cracks observed
---------------------------------------



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 363  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5575781283 Long: -117.018587553 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>15</u> x 1 = <u>15</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>13</u> x 4 = <u>52</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>30</u> (A) <u>75</u> (B) Prevalence Index = B/A = <u>2.5</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>X</u> <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>	<u>15</u>	<u>Yes</u>	<u>OBL</u>		
2. <u>Erodium botrys</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>		
3. <u>Hordeum murinum</u>	<u>3</u>	<u>No</u>	<u>FACU</u>		
4. <u>Bromus madritensis</u>	<u>1</u>	<u>No</u>	<u>UPL</u>		
5. <u>Festuca perennis</u>	<u>1</u>	<u>No</u>	<u>FAC</u>		
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
% Bare Ground in Herb Stratum <u>70</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 363

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3						sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 364  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5574812007 Long: -117.018594826 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Lythrum hyssopifolia</u>		30	Yes	OBL	
2. <u>Festuca perennis</u>		5	No	FAC	
3. <u>Bromus madritensis</u>		1	No	UPL	
4. <u>Mesembryanthemum nodiflorum</u>		1	No	FACU	
5. <u>Spergularia bocconi</u>		1	No	FACW	
6. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
7. <u>      </u>					
8. <u>      </u>					
					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
% Bare Ground in Herb Stratum <u>61</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 364

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ X Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	X	No
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Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crusts indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 365  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5573255051 Long: -117.018592841 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		15	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>		3	No	FAC	
3. <u>Lythrum hyssopifolia</u>		3	No	OBL	
4. <u>Erodium botrys</u>		3	No	FACU	
5. <u>Bromus hordeaceus</u>		1	No	FACU	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>75</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 365

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	X	No
----------------------	-----	---	----

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No    X    Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 366  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5573042729 Long: -117.018602397 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		30	Yes	OBL	
2. <u>Festuca perennis</u>		2	No	FAC	
3. <u>Bromus hordeaceus</u>		1	No	FACU	
4. <u>Lythrum hyssopifolia</u>		3	No	OBL	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
% Bare Ground in Herb Stratum <u>64</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 366

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug and the presence of San Diego fairy shrimp was assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 367  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5571045911 Long: -117.018600426 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		10	Yes	OBL	
2. <u>Glebionis coronaria</u>		2	No	UPL	
3. <u>Festuca perennis</u>		5	Yes	FAC	
4. <u>Erodium botrys</u>		1	No	FACU	
5. <u>Bromus hordeaceus</u>		1	No	FACU	
6. <u>Hordeum murinum</u>		1	No	FACU	
7. <u>      </u>					
8. <u>      </u>					
				20	= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>80</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 367

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: sand inclusions and organic material inclusions. No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 368  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5569502211 Long: -117.018673828 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		10	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Psilocarphus brevissimus</u>		1	No	FACW	
3. <u>Matricaria discoidea</u>		1	No	FACU	
4. <u>Hordeum murinum</u>		1	No	FACU	
5. <u>Festuca perennis</u>		5	Yes	FAC	
6. <u>Lythrum hyssopifolia</u>		1	No	OBL	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>Plantago elongata</u>		1	No	FACW	
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>80</u> % Cover of Biotic Crust <u>0</u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Plantago elongata).					



## SOIL

Sampling Point: 368

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ X Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	X	No
----------------------	-----	---	----

Remarks: sand inclusions and organic material inclusions. No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No    X    Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 369  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5566094838 Long: -117.01868002 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
		= Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>      </u> )			
1. <u>Baccharis salicifolia</u>		5	Yes	FAC
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
		5	= Total Cover	
Herb Stratum	(Plot size: <u>      </u> )			
1. <u>Typha domingensis</u>		1	No	OBL
2. <u>Eleocharis macrostachya</u>		10	Yes	FACW
3. <u>Lythrum hyssopifolia</u>		1	No	OBL
4. <u>Festuca perennis</u>		5	No	FAC
5. <u>Psilocarphus brevissimus</u>		1	No	FACW
6. <u>Triglochin scilloides</u>		10	Yes	OBL
7. <u>Distichlis spicata</u>		1	No	FAC
8. <u>Rumex crispus</u>		1	No	FAC
		30	= Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )			
1. <u>none</u>				
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>70</u>		% Cover of Biotic Crust <u>      </u>		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>      </u>	x 1 = <u>      </u>
FACW species <u>      </u>	x 2 = <u>      </u>
FAC species <u>      </u>	x 3 = <u>      </u>
FACU species <u>      </u>	x 4 = <u>      </u>
UPL species <u>      </u>	x 5 = <u>      </u>
Column Totals: <u>      </u> (A)	<u>      </u> (B)

 Prevalence Index = B/A =

**Hydrophytic Vegetation Indicators:**  
X Dominance Test is >50%  
       Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

**Hydrophytic Vegetation Present?** Yes X No

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Triglochin scilloides).



## SOIL

Sampling Point: 369

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 5/1	95	5YR 4/6	5	C	M	clay	redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**Type: ground waterDepth (inches): 4Hydric Soil Present? Yes X No   

Remarks: depleted matrix observed

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes x No    Depth (inches): 4Water Table Present? Yes x No    Depth (inches): 4Saturation Present? Yes x No    Depth (inches): 4

(includes capillary fringe)

**Wetland Hydrology Present?** Yes X No   

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water present



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 370  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5566017191 Long: -117.01857963 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca perennis</u>		20	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lythrum hyssopifolia</u>		10	Yes	OBL	
3. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
4. <u>Spergularia bocconi</u>		1	No	FACW	
5. <u>Hordeum depressum</u>		1	No	FACW	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>67</u> % Cover of Biotic Crust <u>0</u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 370

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/1	90	7.5YR 4/6	10	C	RC/M	clay	redox
5-6	10YR 4/2	95	10YR 5/4	5	C	M	clay	redox
6-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |  |

Indicators for Problematic Hydric Soils<sup>3</sup>:

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 | <input type="checkbox"/> Other (Explain in Remarks)                    |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)Wetland Hydrology Present? Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 371  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5564799364 Long: -117.018597149 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
Sapling/Shrub Stratum (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
= Total Cover					<b>Hydrophytic Vegetation</b> <b>Present?</b> Yes <u>X</u> No <u>      </u>
Herb Stratum (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
2. <u>Festuca perennis</u>		5	Yes	FAC	
3. <u>Lythrum hyssopifolia</u>		3	Yes	OBL	
4. <u>Hordeum depressum</u>		1	No	FACW	
5. <u>      </u>					10 = Total Cover
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
Woody Vine Stratum (Plot size: <u>      </u> )					
1. <u>none</u>					% Bare Ground in Herb Stratum <u>90</u> % Cover of Biotic Crust <u>0</u>
2. <u>      </u>					
= Total Cover					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 371

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	100					clay	no redox
3-18	10YR 5/2	90	7.5YR 4/4	10	C	M	clay	redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: distinct/prominent redox features observed in lower soil layer

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 372  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5564076909 Long: -117.018586512 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Lythrum hyssopifolia</u>		<u>7</u>	<u>Yes</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>		<u>10</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
4. <u>Spergularia bocconi</u>		<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Triglochin scilloides</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
6. <u>Hordeum depressum</u>		<u>1</u>	<u>No</u>	<u>FACW</u>	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>79</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Triglochin scilloides and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 372**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 5/2	98	10YR 5/6	2	C	RC	(missing)	
3-18	7.5YR 5/3	100					(missing)	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                  |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)              |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)          |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)          |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)              |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)           |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)        |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input checked="" type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)                 |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes X No \_\_\_\_\_

Remarks: Soil meets redox depressions indicator.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes X No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 373  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5564018896 Long: -117.018548017 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
2. <u>Festuca perennis</u>		<u>20</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Hordeum depressum</u>		<u>5</u>	<u>No</u>	<u>FACW</u>	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>74</u> % Cover of Biotic Crust <u>      </u>					
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 373

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/1	98	7.5YR 5/8	1	C	RC	sandy clay	
4-18	7.5YR 5/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                  |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)              |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)          |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)          |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)              |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)           |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)        |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input checked="" type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)                 |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: soil meets redox depressions indicator

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 374  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5561002982 Long: -117.018500877 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		1	Yes	FACW	
2. <u>Festuca perennis</u>		1	Yes	FAC	
3. <u>Plagiobothrys acanthocarpus</u>		1	Yes	OBL	
4. <u>Hordeum depressum</u>		1	Yes	FACW	
5. <u>Polypogon monspeliensis</u>		1	Yes	FACW	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
% Bare Ground in Herb Stratum <u>95</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 374

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/2	100					clay	no redox
1-4	10YR 4/3	99	7.5YR 4/4	1	C	M	sandy clay	redox
4-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: redox observed, but no hydric soil indicators met. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 375  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5560298918 Long: -117.018509507 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum depressum</u>		25	Yes	FACW	
2. <u>Festuca perennis</u>		20	Yes	FAC	
3. <u>Spergularia bocconi</u>		2	No	FACW	
4. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>52</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 375

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/2	100					clay	no redox
2-5	10YR 5/2	99	7.5YR 4/4	1	C	M	sandy clay	redox
5-18	10YR 4/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: depleted matrix observed in second soil layer (2-5")

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 376  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5559634677 Long: -117.018557677 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
= Total Cover					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca perennis</u>		50	Yes	FAC	
2. <u>Lythrum hyssopifolia</u>		1	No	OBL	
3. <u>Hordeum depressum</u>		2	No	FACW	
4. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
5. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>46</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 376

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 4/2	99	7.5YR 5/6	1	C	RC		
6-15	7.5YR 5/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- |   |
|---|
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR C</b> )  |
| <input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR B</b> ) |
| <input type="checkbox"/> Reduced Vertic (F18)             |
| <input type="checkbox"/> Red Parent Material (TF2)        |
| <input type="checkbox"/> Other (Explain in Remarks)       |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: soil meets depleted matrix indicator

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- |   |
|---|
| <input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )       |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> ) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )    |
| <input type="checkbox"/> Drainage Patterns (B10)                    |
| <input type="checkbox"/> Dry-Season Water Table (C2)                |
| <input type="checkbox"/> Thin Muck Surface (C7)                     |
| <input type="checkbox"/> Crayfish Burrows (C8)                      |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)  |
| <input type="checkbox"/> Shallow Aquitard (D3)                      |
| <input type="checkbox"/> FAC-Neutral Test (D5)                      |

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 377  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5558303553 Long: -117.018535117 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		1	No	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>		15	Yes	FAC	
3. <u>Psilocarphus brevissimus</u>		1	No	FACW	
4. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
5. <u>Hordeum murinum</u>		1	No	FACU	
6. <u>Hordeum depressum</u>		5	Yes	FACW	
7. <u>Lythrum hyssopifolia</u>		1	No	OBL	
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>75</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 377**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 5/2	>99	10Yr 5/6	<1	C	RC	clay	
5-18	10YR 5/4						sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes X No \_\_\_\_\_

Remarks: Depleted matrix observed

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes X No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 378  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5557241643 Long: -117.018518117 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation   X  , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   X   No         
 Are Vegetation       , Soil   X  , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>  X  </u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>  X  </u> No <u>      </u>
Hydric Soil Present?	Yes <u>  X  </u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>  X  </u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      2      </u> (A) Total Number of Dominant Species Across All Strata: <u>      2      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      100      </u> (A/B)
1. <u>none</u>					
2. <u>                    </u>					
3. <u>                    </u>					
4. <u>                    </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>                    </u> Multiply by: <u>                    </u> OBL species <u>                    </u> x 1 = <u>                    </u> FACW species <u>                    </u> x 2 = <u>                    </u> FAC species <u>                    </u> x 3 = <u>                    </u> FACU species <u>                    </u> x 4 = <u>                    </u> UPL species <u>                    </u> x 5 = <u>                    </u> Column Totals: <u>                    </u> (A) <u>                    </u> (B) Prevalence Index = B/A = <u>                    </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>                    </u> )					
1. <u>none</u>					
2. <u>                    </u>					
3. <u>                    </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>  X  </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. <u>                    </u>					
5. <u>                    </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>                    </u> )					
1. <u>Spergularia bocconi</u>		1	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>		2	No	OBL	
3. <u>Plantago elongata</u>		5	No	FACW	
4. <u>Hordeum depressum</u>		25	Yes	FACW	
5. <u>Festuca perennis</u>		10	Yes	FAC	
6. <u>Lepidium latipes</u>		1	No	FACW	<b>Hydrophytic Vegetation Present?</b> Yes <u>  X  </u> No <u>      </u>
7. <u>                    </u>					
8. <u>                    </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>                    </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>  X  </u> No <u>      </u>
2. <u>                    </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>  56  </u> % Cover of Biotic Crust <u>                    </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Plantago elongata).					



## SOIL

Sampling Point: 378

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/4	100					sandy clay	
4018	10YR 4/4	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Large ceramic tiles (masonry) present in soil profile. No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 379  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5543205289 Long: -117.018128776 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and is considered to meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Rumex crispus</u>		10	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>		50	Yes	FAC	
3. <u>Hordeum depressum</u>		2	No	FACW	
4. <u>Phalaris minor</u>		1	No	UPL	
5. <u>Bromus diandrus</u>		1	No	UPL	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>36</u> % Cover of Biotic Crust <u>      </u>					
Remarks: No ACOE vernal pool plant indicator species were present within the basin.					



## SOIL

Sampling Point: 379

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	X	No
----------------------	-----	---	----

Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No    X    Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug and the presence of San Diego fairy shrimp was assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 382  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5572488164 Long: -117.01871224 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation   X  , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   X   No         
 Are Vegetation       , Soil   X  , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>  X  </u> No <u>      </u> Hydric Soil Present? Yes <u>  X  </u> No <u>      </u> Wetland Hydrology Present? Yes <u>  X  </u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>  X  </u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      2      </u> (A) Total Number of Dominant Species Across All Strata: <u>      2      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      100      </u> (A/B)
2. _____					
3. _____					
4. _____					
				= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2. _____					
3. _____					
4. _____					
5. _____					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: _____ )					
1. <u>Plagiobothrys acanthocarpus</u>		5	Yes	OBL	<b>Hydrophytic Vegetation Indicators:</b> <u>  X  </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>		3	Yes	FAC	
3. <u>Bromus hordeaceus</u>		1	No	FACU	
4. <u>Lythrum hyssopifolia</u>		1	No	OBL	
5. _____					
6. _____					
7. _____					
8. _____					
				10 = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>  X  </u> No <u>      </u>
2. _____					
				= Total Cover	
% Bare Ground in Herb Stratum <u>      90      </u>		% Cover of Biotic Crust <u>      </u>			
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 382

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	100					sandy clay	
4-18	10YR 4/4	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: indistinct surface between layers. No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 383  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5564051521 Long: -117.018726807 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		3	No	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>		5	Yes	OBL	
3. <u>Lythrum hyssopifolia</u>		1	No	OBL	
4. <u>Hordeum depressum</u>		3	No	FACW	
5. <u>Festuca perennis</u>		7	Yes	FAC	
6. <u>Erodium botrys</u>		1	No	FACU	
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>80</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 383

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/2	95	7.5YR 4/4	5	C	M	clay	redox
4-18	10YR 4/3	99	7.5YR 4/4	1	C	M	clay	redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?	Yes	No
Type: _____ Depth (inches): _____		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Remarks: depleted matrix observed in top soil layer (0-4")

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 384  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5561122205 Long: -117.018671809 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Psilocarphus brevissimus</u>		5			
2. <u>Spergularia bocconi</u>		5			
3. <u>Festuca perennis</u>		3			
4. <u>Hordeum depressum</u>		10			
5. <u>Plagiobothrys acanthocarpus</u>		1			
6. <u>Mesembryanthemum nodiflorum</u>		1			
7. <u>      </u>					
8. <u>      </u>					
				25 = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
				= Total Cover	
% Bare Ground in Herb Stratum <u>75</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: 384

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/2	100					sandy clay	no redox
2-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 385  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5560694594 Long: -117.01872227 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>Spergularia bocconi</u>		1	No	FACW	
3. <u>Hordeum depressum</u>		2	Yes	FACW	
4. <u>Festuca perennis</u>		1	No	FAC	
5. <u>Psilocarphus brevissimus</u>		1	No	FACW	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>94</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 385

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/2	95	7.5YR 4/6	5	C	RC	sandy clay	redox
4-18	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: depleted matrix observed in top soil layer

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 386  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5559443939 Long: -117.018737272 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		2	Yes	FACW	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>Hordeum depressum</u>		5	Yes	FACW	
3. <u>Festuca perennis</u>		1	No	FAC	
4. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
5. <u>Triglochin scilloides</u>		1	No	OBL	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>90</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Triglochin scilloides).					



## SOIL

Sampling Point: 386

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	98	10YR 4/6	2	C	RC	sandy clay	
4-18	10YR 4/3						sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: depleted matrix observed

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 387  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5559255424 Long: -117.018771367 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation   X  , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   X   No         
 Are Vegetation       , Soil   X  , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>  X  </u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>  X  </u> No <u>  x  </u>
Hydric Soil Present?	Yes <u>  X  </u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>  X  </u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>  5  </u> (A) Total Number of Dominant Species Across All Strata: <u>  5  </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>  100  </u> (A/B)
1. <u>none</u>					
2. <u>                    </u>					
3. <u>                    </u>					
4. <u>                    </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>                    </u> Multiply by: <u>                    </u> OBL species <u>                    </u> x 1 = <u>                    </u> FACW species <u>                    </u> x 2 = <u>                    </u> FAC species <u>                    </u> x 3 = <u>                    </u> FACU species <u>                    </u> x 4 = <u>                    </u> UPL species <u>                    </u> x 5 = <u>                    </u> Column Totals: <u>                    </u> (A) <u>                    </u> (B) Prevalence Index = B/A = <u>                    </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>                    </u> )					
1. <u>none</u>					
2. <u>                    </u>					
3. <u>                    </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>  X  </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>                    </u> )					
1. <u>Lythrum hyssopifolia</u>		1	Yes	OBL	
2. <u>Psilocarphus brevissimus</u>		1	Yes	FACW	
3. <u>Hordeum depressum</u>		1	Yes	FACW	
4. <u>Plagiobothrys acanthocarpus</u>		1	Yes	OBL	
5. <u>Festuca perennis</u>		1	Yes	FAC	
6. <u>                    </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>  X  </u> No <u>      </u>
7. <u>                    </u>					
8. <u>                    </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>                    </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>  X  </u> No <u>      </u>
2. <u>                    </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>  95  </u> % Cover of Biotic Crust <u>                    </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 387**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/2	95	7.5YR 4/4	5	C	RC	clay	redox
1-4	10YR 5/3	99	7.5YR 3/4	1	C	M	sandy clay	redox
4-18	10YR 5/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: redox observed, but no hydric soil indicators met. No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 388  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5559124287 Long: -117.018719073 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation   X  , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   X   No         
 Are Vegetation       , Soil   X  , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>  X  </u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>  X  </u> No <u>      </u>
Hydric Soil Present?	Yes <u>  X  </u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>  X  </u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>  1  </u> (A) Total Number of Dominant Species Across All Strata: <u>  1  </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>  100  </u> (A/B)
1. <u>none</u>					
2. <u>                    </u>					
3. <u>                    </u>					
4. <u>                    </u>					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>                    </u> Multiply by: <u>                    </u> OBL species <u>                    </u> x 1 = <u>                    </u> FACW species <u>                    </u> x 2 = <u>                    </u> FAC species <u>                    </u> x 3 = <u>                    </u> FACU species <u>                    </u> x 4 = <u>                    </u> UPL species <u>                    </u> x 5 = <u>                    </u> Column Totals: <u>                    </u> (A) <u>                    </u> (B) Prevalence Index = B/A = <u>                    </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>                    </u> )					
1. <u>none</u>					
2. <u>                    </u>					
3. <u>                    </u>					
4. <u>                    </u>					
5. <u>                    </u>					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>                    </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>  X  </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>	<u>  1  </u>	<u>  No  </u>	<u>  OBL  </u>		
2. <u>Plantago elongata</u>	<u>  1  </u>	<u>  No  </u>	<u>  FACW  </u>		
3. <u>Festuca perennis</u>	<u>  15  </u>	<u>  Yes  </u>	<u>  FAC  </u>		
4. <u>Spergularia bocconi</u>	<u>  3  </u>	<u>  No  </u>	<u>  FACW  </u>		
5. <u>Mesembryanthemum nodiflorum</u>	<u>  1  </u>	<u>  No  </u>	<u>  FACU  </u>		
6. <u>Hordeum murinum</u>	<u>  2  </u>	<u>  No  </u>	<u>  FACU  </u>		
7. <u>Lepidium latipes</u>	<u>  1  </u>	<u>  No  </u>	<u>  FACW  </u>		
8. <u>                    </u>					
				= Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>                    </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>  X  </u> No <u>      </u>
1. <u>none</u>					
2. <u>                    </u>					
				= Total Cover	
% Bare Ground in Herb Stratum <u>  76  </u> % Cover of Biotic Crust <u>                    </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Plantago elongata).



## SOIL

Sampling Point: 388

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/2	100					sandy clay	no redox
2-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 389  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5555928485 Long: -117.018865359 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Hordeum depressum</u>		25	Yes	FACW	
2. <u>Festuca perennis</u>		10	Yes	FAC	
3. <u>Psilocarphus brevissimus</u>		1	No	FACW	
4. <u>Spergularia bocconi</u>		1	No	FACW	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>63</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (*Psilocarphus brevissimus*).



## SOIL

Sampling Point: 389

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/2	95	7.5YR 4/4	5	C	M	sandy clay	redox
4-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: depleted matrix observed in top soil layer (0-4")

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 390  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5555328166 Long: -117.018886657 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		1	No	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lepidium latipes</u>		1	No	FACW	
3. <u>Psilocarphus brevissimus</u>		1	No	FACW	
4. <u>Plantago elongata</u>		1	No	FACW	
5. <u>Festuca perennis</u>		6	Yes	FAC	
6. <u>Hordeum depressum</u>		1	No	FACW	
7. <u>      </u>					
8. <u>      </u>					
					11 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>89</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plantago elongata).



## SOIL

Sampling Point: 390

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	7.5YR 4/1	98	7.5YR 4/6	2	C	RC	sandy clay	
2-5	7.5YR 3/2	80	7.5YR 4/4	20	RM	M	sandy clay	
6-15	7.5YR 4/4	100						

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: depleted matrix observed

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 391  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5554499791 Long: -117.018846332 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Triglochin scilloides</u>		50	Yes	OBL	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Psilocarphus brevissimus</u>		20	Yes	FACW	
3. <u>Lythrum hyssopifolia</u>		1	No	OBL	
4. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
5. <u>Spergularia bocconi</u>		1	No	FACW	
6. <u>Hordeum depressum</u>		1	No	FACW	
7. <u>Festuca perennis</u>		3	No	FAC	
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>23</u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Triglochin scilloides, Psilocarphus brevissimus, and Plagiobothrys acanthocarpus).					



## SOIL

Sampling Point: 391

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ X Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	X	No
----------------------	-----	---	----

Remarks: No soil pit was dug. Per the 1987 delineation manual, hydric soils can be assumed when a wetland is dominated by OBL and FACW species only.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No    X    Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug and the presence of San Diego fairy shrimp was assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 392  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5554124592 Long: -117.018899749 Datum: NAD83  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation X, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____		
Wetland Hydrology Present?	Yes <u>X</u> No _____		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
3. _____					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: _____ )					
1. <u>Psilocarphus brevissimus</u>		20	Yes	FACW	
2. <u>Festuca perennis</u>		15	Yes	FAC	
3. <u>Spergularia bocconi</u>		1	No	FACW	
4. <u>Hordeum depressum</u>		5	No	FACW	<b>Hydrophytic Vegetation</b> <b>Present?</b> Yes <u>X</u> No _____
5. <u>Lythrum hyssopifolia</u>		1	No	OBL	
6. <u>Plagiobothrys acanthocarpus</u>		1	No	OBL	
7. _____					
8. _____					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
= Total Cover					
% Bare Ground in Herb Stratum <u>57</u> % Cover of Biotic Crust _____					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus).



## SOIL

Sampling Point: 392

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 3/2	90	5YR 4/6	10	C	RC/M	sandy clay	redox
5-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: depleted matrix observed in top soil layer (0-5")

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 393  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5552694422 Long: -117.018890497 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
2. <u>Triglochin scilloides</u>		<u>25</u>	<u>Yes</u>	<u>OBL</u>	
3. <u>Psilocarphus brevissimus</u>		<u>25</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
4. <u>Festuca perennis</u>		<u>3</u>	<u>No</u>	<u>FAC</u>	
5. <u>Lythrum hyssopifolia</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
6. <u>Hordeum depressum</u>		<u>1</u>	<u>No</u>	<u>FACW</u>	
7. <u>      </u>					
8. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>44</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species (Psilocarphus brevissimus, Plagiobothrys acanthocarpus, and Triglochin scilloides).



## SOIL

Sampling Point: 393

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/1	85	2.5YR 4/8	15	C	RC/M	clay	redox
6-18	7.5yr 4/4	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No \_\_\_\_\_

Remarks: distinct and prominent redox features found in top layer (0-6")

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/9/2022  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 394  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.547932 Long: -117.018973 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. Vegetation is not strongly hydrophytic and hydric soils were not observed. Sampled area is not a wetland.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		5	Y	FACW	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>Medicago polymorpha</u>		1	N	FACU	
3. <u>Erodium cicutarium</u>		1	N	UPL	
4. <u>Psilocarphus brevissimus</u>		1	N	FACW	
5. <u>Glebionis coronaria</u>		1	N	UPL	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus).					



## SOIL

Sampling Point: 394

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: no hydric soil indicators observed

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes X No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/9/2022  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 395  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C-Mediterranean California Lat: 32.547932 Long: -117.018973 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
= Total Cover				
Sapling/Shrub Stratum	(Plot size: <u>      </u> )			
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
= Total Cover				
Herb Stratum	(Plot size: <u>      </u> )			
1. <u>Spergularia bocconi</u>		<u>1</u>	<u>N</u>	<u>FACW</u>
2. <u>Medicago polymorpha</u>		<u>1</u>	<u>N</u>	<u>FACU</u>
3. <u>Erodium botrys</u>		<u>1</u>	<u>N</u>	<u>FACU</u>
4. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>
5. <u>      </u>				
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
4 = Total Cover				
Woody Vine Stratum	(Plot size: <u>      </u> )			
1. <u>none</u>				
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
 Total Number of Dominant Species Across All Strata: 0 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>1</u>	x 2 = <u>2</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>3</u>	x 4 = <u>12</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>4</u> (A)	<u>14</u> (B)

Prevalence Index = B/A = 3.5

**Hydrophytic Vegetation Indicators:**  
       Dominance Test is >50%  
X Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes        No X

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool does not consist predominately of hydrophytic vegetation. It does support one vernal pool plant indicator species (Psilocarphus brevissimus).



## SOIL

Sampling Point: 395

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks, biotic crust, and water-stained leaves indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: March 19, 2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 396-WET  
 Investigator(s): Beth Proccsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55 Long: -117.02 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30% slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature meets the wetland criteria and is adjacent to VPHCP2336 and shares a hydrologic connection.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)
1. <u>Tamarix ramossissima</u>	60	Yes	FAC	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>60</u>	= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>Baccharis salicifolia</u>	5	Yes	FAC	
2. <u>Tamarix ramossissima</u>	5	Yes	FAC	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. <u>      </u>	<u>10</u>	= Total Cover		
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Phalaris minor</u>	25	Yes	FAC	
2. <u>Rumex crispus</u>	5	No	FAC	
3. <u>Bromus rubens</u>	15	Yes	UPL	
4. <u>Melilotus indicus</u>	10	No	FACU	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>55</u>	= Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>	<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>0</u>				

Remarks: Phalaris minor often associated with depressions/wetland in local region, so assigned FAC indicator. The vegetation pass the dominance test and is hydrophytic.



## SOIL

Sampling Point: 396-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 4/1	99	7.5YR 4/4	1	C	PL/M	sandy clay	
10-18	10YR 4/2	100					sand	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input checked="" type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Water marks obscured by litter under tamarisk but overall strong wetland hydrology indicators.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P1  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.552192 Long: -117.014041 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>      </u>
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Juncus bufonius</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>		<u>30</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Hordeum depressum</u>		<u>2</u>	<u>N</u>	<u>FACW</u>	
4. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>66</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/1	97	7.5YR 3/8	3	C	RC/M	clay	root channels and matrix redox
4-7	7.5YR 4/3	100					sandy clay	
8-18	7.5YR 4/4	90	5YR 3/8	10	C	M	sandy clay	high amount of cobble

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: large rock cobbles present throughout profile. Redox features observed in multiple layers, but none meet a hydric soil indicator. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P2  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.552209 Long: -117.013946 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		1	N	FACW	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>		2	N	FAC	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					3 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>97</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. Sampled during the growing season, but vegetation cover insufficient (less than 5%) to be considered hydrophytic. It does support one vernal pool plant indicator species (Psilocarphus brevissimus)



## SOIL

Sampling Point: P2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <u>X</u>
Depth (inches): _____	

Remarks: The sampled area is unvegetated and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____	Yes <u>X</u> No _____
Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____	
Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P3/VPHP 264  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.552459 Long: -117.012979 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Lilaea scilloides</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
3. <u>Festuca perennis</u>		<u>10</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Juncus bufonius</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
5. <u>Hordeum intercedens</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
6. <u>Hordeum depressum</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>85</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Lilaea scilloides). Leaf litter is present in basin.



## SOIL

Sampling Point: P3/VPHCP 264

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	97	7.5YR 4/4	3	C	RC	clay	
3-14	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>cobble</u> Depth (inches): <u>14</u>	Hydric Soil Present?    Yes <u>X</u> No <u>      </u>
--	---

Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> Water Table Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> Saturation Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u>      </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks, biotic crusts, and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P4/HCP 1194  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553082 Long: -117.011376 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		1	N	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Rumex crispus</u>		18	Y	FAC	
3. <u>Festuca perennis</u>		18	Y	FAC	
4. <u>Hordeum depressum</u>		1	N	FACW	
5. <u>Deinandra fasciculata</u>		1	N	FACU	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					39 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>61</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: P4/HCP 1194

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 3/2	95	7.5YR 4/4	5			clay	redox
5-14	10YR 3/2.5	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>boulder</u> Depth (inches): <u>14</u>	Hydric Soil Present?    Yes <u>X</u> No <u>      </u>
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Remarks: redox dark surface observed in top layer

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> Water Table Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> Saturation Present?    Yes <u>      </u> No <u>X</u> Depth (inches): <u>      </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u>      </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P5/HCP 1192  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553247 Long: -117.010722 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Psilocarphus brevissimus</u> 5 Y FACW 2. <u>Spergularia bocconi</u> 1 N FACW 3. <u>Juncus bufonius</u> 1 N FACW 4. <u>Festuca perennis</u> 15 Y FAC 5. <u>Deinandra fasciculata</u> 1 N FACU 6. <u>Sonchus oleraceus</u> 1 N UPL 7. <u>      </u> 8. <u>      </u> 24 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>76</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: P5/HCP 1192

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/3	100					sandy clay	no redox
2-18	10YR 4/4	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks, biotic crusts, and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P6\_VPHCP 263  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.552206 Long: -117.011206 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Hordeum depressum</u>		10	N	FACW	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Festuca perennis</u>		50	Y	FAC		
3. <u>Bromus diandrus</u>		10	N	UPL		
4. <u>Erodium botrys</u>		1	N	FACU		
5. <u>Eryngium aristulatum var. parishii</u>		1	N	OBL		
6. <u>      </u>						
7. <u>      </u>						
8. <u>      </u>						
						72 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>28</u> % Cover of Biotic Crust <u>      </u>						

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Eryngium aristulatum var. parishii).



## SOIL

Sampling Point: P6\_VPHCP 263

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	98	7.5YR 4/4	2			clay loam	
4-18	10YR 4/2	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <u>  X  </u> No _____
--	---

Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>  X  </u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>  X  </u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>  X  </u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>  X  </u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of ponding indicates that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P7/ HCP 262  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.551864 Long: -117.010909 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Psilocarphus brevissimus</u>		<u>2</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. <u>Festuca perennis</u>		<u>20</u>	<u>Y</u>	<u>FAC</u>		
3. <u>Medicago polymorpha</u>		<u>1</u>	<u>N</u>	<u>FACU</u>		
4. <u>Brassica nigra</u>		<u>2</u>	<u>N</u>	<u>UPL</u>		
5. <u>Hordeum depressum</u>		<u>1</u>	<u>N</u>	<u>FACW</u>		
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. <u>      </u>						
8. <u>      </u>						
						= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>74</u> % Cover of Biotic Crust <u>      </u>						

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: P7/HCP 262

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	99	7.5YR 4/6	1	C	RC	sandy clay	
4-18	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: depleted matrix observed

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P8/HCP 1194  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.550905 Long: -117.011118 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Rumex crispus</u>		10	Y	FAC	
2. <u>Psilocarphus brevissimus</u>		3	N	FACW	
3. <u>Juncus bufonius</u>		1	N	FACW	
4. <u>Spergularia bocconi</u>		1	N	FACW	
5. <u>Festuca perennis</u>		3	N	FAC	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>82</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (*Psilocarphus brevissimus*). Leaf litter is present in basin.



## SOIL

Sampling Point: P8/ HCP 1194

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: cobbles mixed throughout soil profile. No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, presence of surface soil cracks and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P12  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.54951414880 Long: -117.01407944400 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>7</u> (A) <u>26</u> (B) Prevalence Index = B/A = <u>3.7</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Deinandra fasciculata</u>		<u>30</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>N</u>	<u>OBL</u>	
3. <u>Bromus madritensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Bromus hordeaceus</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Festuca perennis</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
6. <u>Centaurea melitensis</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>Hordeum murinum</u>		<u>3</u>	<u>N</u>	<u>FACU</u>	
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>62</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: P12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P13/HCP 1193  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553437 Long: -117.009490 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Psilocarphus brevissimus</u> 2 Y FACW 2. <u>Festuca perennis</u> 1 N FAC 3. <u>Juncus bufonius</u> 1 N FACW 4. <u>Hordeum depressum</u> 1 N FACW 5. <u>Spergularia bocconi</u> 1 N FACW 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 6 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>98</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (*Psilocarphus brevissimus*). Leaf litter is present in basin.



## SOIL

Sampling Point: P13/HCP 1193

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 3/1	95	2.5YR 4/8	5	C	RC/M	clay	redox
5-14	10YR 5/3	90	5YR 5/8	10	C	M	sandy clay	redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal (cobble)</u> Depth (inches): <u>14</u>	Hydric Soil Present?    Yes <u>X</u> No <u>  </u>
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Remarks: redox dark surface observed throughout soil profile

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <u>X</u> No <u>  </u> Depth (inches): <u>2</u> Water Table Present?    Yes <u>  </u> No <u>X</u> Depth (inches): <u>  </u> Saturation Present?    Yes <u>  </u> No <u>X</u> Depth (inches): <u>  </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u>  </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: The presence of surface water, surface soil cracks, biotic crusts, and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Otay Southwest Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P14  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.554246 Long: -117.014055 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depressional

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and is considered to meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		30	Y	FACW	
2. <u>Plantago elongata</u>		<1	N	FACW	
3. <u>Festuca perennis</u>		5	N	FAC	
4. <u>Hordeum depressum</u>		1	N	FACW	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>64</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (*Psilocarphus brevissimus* and *Plantago elongata*). Leaf litter is present in basin.



## SOIL

Sampling Point: P14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks: No soil pit was dug due because the sample point is outside of the Review Area. However, hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P15  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.554230 Long: 117.014028 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Depressional  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		<u>0</u>	= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>None</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
			= Total Cover		
<b>Herb Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Plagiobothrys acanthocarpus</u>		<u>1</u>	<u>No</u>	<u>OBL</u>	
2. <u>Lepidium latipes</u>		<u>&lt;1</u>	<u>No</u>	<u>FACW</u>	
3. <u>Hordeum depressum</u>		<u>2</u>	<u>Yes</u>	<u>FACW</u>	
4. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Festuca perennis</u>		<u>2</u>	<u>Yes</u>	<u>FAC</u>	
6. <u>Medicago polymorpha</u>		<u>&lt;1</u>	<u>No</u>	<u>FACU</u>	
7. <u>      </u>					
8. <u>      </u>					
			= Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>None</u>					
2. <u>      </u>					
		<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>0</u>		% Cover of Biotic Crust <u>0</u>			
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Plagiobothrys acanthocarpus and Psilocarphus brevissimus). Leaf litter is present in basin.					



## SOIL

Sampling Point: P15

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	100					sandy clay	
4-18	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 11, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: P17  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.552231 Long: -117.013878 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Hordeum depressum</u> 1 N FACW 2. <u>Festuca perennis</u> 5 Y FAC 3. <u>Plagiobothrys acanthocarpus</u> 1 N OBL 4. <u>Hedypnois cretica</u> 1 N UPL 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 8 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>92</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: P17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/2	100					clay	no redox
2-10	10YR 3/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal (boulder)</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>10</u>	

Remarks: No redox features observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: VPHCP 135  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.554328 Long: -117.022655 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		1	N	FACW	
2. <u>Festuca perennis</u>		95	Y	FAC	
3. <u>Hordeum murinum</u>		1	N	FACU	
4. <u>Bromus madritensis</u>		1	N	UPL	
5. <u>Erodium botrys</u>		1	N	FACU	
6. <u>Avena sp</u>		1	N	UPL	
7. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
= Total Cover					
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP 135

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/1	99	10YR 4/4	1	C	RC/M	sandy clay	redox
1-6	10YR 4/1	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):		Hydric Soil Present?
Type: <u>shovel refusal (compact soil)</u>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>6</u>		

Remarks: Redox observed within top layer in insufficient amount. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: VPHCP 136  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.554243 Long: -117.022703 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca perennis</u>		96	Y	FAC	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Deinandra fasciculata</u>		3	N	FACU	
3. <u>Bromus madritensis</u>		1	N	UPL	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool consists predominately of hydrophytic vegetation, but no ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: VPHCP 136

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 3/1	95	7.5YR 4/4	5	C	M/RC	clay	redox
5-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
--	--

Remarks: redox dark surface observed in top soil layer

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: indicators of wetland hydrology observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP278  
 Investigator(s): Beth Proccsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5525727168 Long: -117.018529913 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>95</u> x 5 = <u>475</u> Column Totals: <u>97</u> (A) <u>481</u> (B) Prevalence Index = B/A = <u>4.9</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Bromus diandrus</u>		40	Yes	UPL	
2. <u>Rumex crispus</u>		2	No	FAC	
3. <u>Avena barbata</u>		35	Yes	UPL	
4. <u>Brassica nigra</u>		20	Yes	UPL	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>3</u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area does not support a predominance of hydrophytic vegetation, and no ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: VPHCP278

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, the evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP420  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.556882019 Long: -117.018484914 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca perennis</u>		20	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Bromus diandrus</u>		5	No	UPL	
3. <u>Erodium botrys</u>		1	No	FACU	
4. <u>Psilocarphus brevissimus</u>		1	No	FACW	
5. <u>Plagiobothrys acanthocarpus</u>		2	No	OBL	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>71</u> % Cover of Biotic Crust <u>      </u>					
% Bare Ground in Woody Vine Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support two vernal pool plant indicator species (Psilocarphus brevissimus and Plagiobothrys acanthocarpus). Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP420

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 4/2	97	10YR 5/6	3	C	RC/M	sandy clay	redox
5-18	10YR 4/4	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)            |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)         |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)      |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)          |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |  |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Oxidized rizospheres observed within matrix top layer and lots of organic material present. Depleted matrix observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and biotic crust indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP539  
 Investigator(s): Beth Procsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5517752919 Long: -117.008666167 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: depression  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Eleocharis macrostachya</u>		30	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Heliotropium curassavicum</u>		3	No	FACU	
3. <u>Verbena lasiostachys</u>		1	No	FAC	
4. <u>Festuca perennis</u>		40	Yes	FAC	
5. <u>Phalaris minor</u>		26	Yes	UPL	
6. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>					
% Bare Ground in Woody Vine Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool consists predominantly of hydrophytic vegetation, but no ACOE vernal pool plant indicator species were present within the basin. Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP539

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 3/2	90	5YR4/6	10	RM	M	CLAY LOAM	DARK GREY
5-14	10YR 2/1	75	5YR4/6	25	RM	M	CLAY LOAM	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                   |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)               |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)           |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)               |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)         |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)             |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)                  |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Redox dark surface observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: VPHCP 1223  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553383 Long: -117.022863 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Festuca perennis</u> 95 Y FAC 2. <u>Deinandra fasciculata</u> 2 N FACU 3. <u>Hordeum murinum</u> 1 N FACU 4. <u>      </u> 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 98 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 98 = Total Cover				
% Bare Ground in Herb Stratum <u>2</u> % Cover of Biotic Crust <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The sample area consists predominately of hydrophytic vegetation, but no ACOE vernal pool plant indicator species were present within the basin. Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP 1223

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/1	99	7.5YR 4/6	1	C	M	clay	cobbles abundant top 6"
2-10	10YR 4/2						clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): <u>10</u>	

Remarks: Redox observed within top layer in insufficient amount. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>                    </u>	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a		
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.		



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: VPHCP 1224  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553407 Long: -117.022794 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? Yes ☐ Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? Yes ☐ (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. <u>none</u>					
2. _____					
3. _____					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. _____					
5. _____					
= Total Cover					
<b>Herb Stratum</b> (Plot size: _____ )					
1. <u>Festuca perennis</u>		60	Y	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Deinandra fasciculata</u>		10	N	FACU	
3. <u>Bromus diandrus</u>		15	N	UPL	
4. <u>Hordeum murinum</u>		5	N	FACU	
5. _____					
6. _____					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
7. _____					
8. _____					
90 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____					
90 = Total Cover					
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust _____					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool consists predominately of hydrophytic vegetation, but ACOE vernal pool plant indicator species were present within the basin. Leaf litter is present in basin.					



## SOIL

Sampling Point: VPHCP 1224

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, evidence of hydrophytic vegetation indicate that the area supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/12/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1528  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5522045349 Long: -117.008254009 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Galium aparine</u>		5	N	FACU	
2. <u>Sporobolus airoides</u>		10	N	FAC	
3. <u>Avena barbata</u>		30	Y	UPL	
4. <u>Bromus diandrus</u>		10	N	UPL	
5. <u>Stipa pulchra</u>		25	Y	UPL	
6. <u>Festuca perennis</u>		20	Y	FAC	
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>					

Remarks: No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: VPHCP1528

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/2	100					Loam	No redox, a lot of organic material
2-5	10YR 4/1.5	100					Clay	Root channels, no redox.
5-18	10YR 3/1	100					Clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No hydric soil indicators observed

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes X No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2.27.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: VPHCP1651  
 Investigator(s): Beth Proscal, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55214 Long: -117.01840 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil X, or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				= Total Cover
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
				= Total Cover
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Spergularia bocconi</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Psilocarphus brevissimus</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Lepidium nitidum</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	
4. <u>Lepidium latipes</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Crassula aquatica</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	
6. <u>Plagiobothrys acanthocarpus</u>	<u>1</u>	<u>No</u>	<u>OBL</u>	
7. <u>Plantago elongata</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
8. <u>      </u>				
				= Total Cover
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
				= Total Cover
% Bare Ground in Herb Stratum <u>54</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports four vernal pool plant indicator species (Psilocarphus brevissimus, Crassula aquatica, Plagiobothrys acanthocarpus, and Plantago elongata).



## SOIL

Sampling Point: VPHCP1651

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 3/2	100					sandy clay	
2-18	10YR 3/2	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: No redox observed. However, hydric soils are assumed here as problematic due to strong indicators of hydrophytic vegetation and wetland hydrology. This feature is a vernal pool that is seasonally ponded and may lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors, which may include human-caused disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and a biotic crust both indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1752  
 Investigator(s): Beth Proccsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5523901515 Long: -117.008204617 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>3</u> x 2 = <u>6</u> FAC species <u>53</u> x 3 = <u>159</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>44</u> x 5 = <u>220</u> Column Totals: <u>100</u> (A) <u>385</u> (B) Prevalence Index = B/A = <u>3.85</u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Sporobolus airoides</u>		<u>3</u>	<u>No</u>	<u>FAC</u>	
2. <u>Bromus diandrus</u>		<u>43</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>Eleocharis macrostachya</u>		<u>3</u>	<u>No</u>	<u>FACW</u>	
4. <u>Festuca perennis</u>		<u>50</u>	<u>Yes</u>	<u>FAC</u>	
5. <u>Avena barbata</u>		<u>1</u>	<u>No</u>	<u>UPL</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>0</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation, and no ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: VPHCP1752

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, the evidence of surface soil cracks. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1753  
 Investigator(s): Beth Procsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5520923576 Long: -117.00798359 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The vegetation at the sample site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>50</u> x 5 = <u>250</u> Column Totals: <u>100</u> (A) <u>400</u> (B) Prevalence Index = B/A = <u>4.0</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Bromus diandrus</u>		<u>45</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Avena barbata</u>		<u>5</u>	<u>No</u>	<u>UPL</u>	
3. <u>Festuca perennis</u>		<u>50</u>	<u>Yes</u>	<u>FAC</u>	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area does not support a predominance of hydrophytic vegetation, and no ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: VPHCP1753

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Although no surface water was present at the time of the delineation, the evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1754  
 Investigator(s): Beth Procsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5474422107 Long: -117.014794759 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation X, Soil       , or Hydrology X naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>Tamarix ramosissima</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>5</u>	<u>      </u>	<u>      </u>	
<u>5</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Malvella leprosa</u> <u>5</u> <u>No</u> <u>FACU</u> 2. <u>Bromus madritensis</u> <u>5</u> <u>No</u> <u>UPL</u> 3. <u>Rumex crispus</u> <u>20</u> <u>Yes</u> <u>FAC</u> 4. <u>Eleocharis macrostachya</u> <u>20</u> <u>Yes</u> <u>FACW</u> 5. <u>Bromus diandrus</u> <u>10</u> <u>No</u> <u>UPL</u> 6. <u>Xanthium strumarium</u> <u>5</u> <u>No</u> <u>FAC</u> 7. <u>Festuca perennis</u> <u>30</u> <u>Yes</u> <u>FAC</u> 8. <u>Brassica nigra</u> <u>5</u> <u>No</u> <u>UPL</u> <u>100</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Malvella leprosa). Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP1754

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR3/2	80	5YR4/6	20	RM	M	clay loam	
4-8	10YR3/1	80	5YR4/6	20	RM	M	clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                   |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)               |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)           |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)               |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)         |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)             |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)                  |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: shovel refusal

Depth (inches): 8 in

Hydric Soil Present? Yes X No   

Remarks: Redox dark surface observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes    No X Depth (inches):   

Water Table Present? Yes    No X Depth (inches):   

Saturation Present? Yes    No X Depth (inches):   

(includes capillary fringe)

Wetland Hydrology Present? Yes X No   

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug and the presence of San Diego fairy shrimp was assumed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1755  
 Investigator(s): Beth Procsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5460208115 Long: -117.023413675 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
<u>      </u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
<u>      </u> = Total Cover				
Herb Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Eleocharis macrostachya</u>	<u>70</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Frankenia salina</u>	<u>5</u>	<u>No</u>	<u>FACW</u>	
3. <u>Persicaria lapathifolia</u>	<u>5</u>	<u>No</u>	<u>FACW</u>	
4. <u>Deschampsia danthoniodes</u>	<u>1</u>	<u>No</u>	<u>FACW</u>	
5. <u>Rumex crispus</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	
6. <u>Erodium cicutarium</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	
7. <u>Phalaris minor</u>	<u>2</u>	<u>No</u>	<u>UPL</u>	
8. <u>Festuca perennis</u>	<u>6</u>	<u>No</u>	<u>FAC</u>	
<u>96</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u> <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>none</u>				
2. <u>      </u>				
<u>96</u> = Total Cover				
% Bare Ground in Herb Stratum <u>4</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Deschampsia danthoniodes). Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP1755

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	85	5YR 4/6	15	C	RC/M	loam	
4-18	10YR 3/1	97	5YR 3/2	3	C	M	loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks: Redox dark surface observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/11/2022  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1756  
 Investigator(s): J.R. Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.547932 Long: -117.018973 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca perennis</u>		<u>75</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Phalaris lemmonii</u>		<u>5</u>	<u>N</u>	<u>FACW</u>	
3. <u>Muhlenbergia rigens</u>		<u>5</u>	<u>N</u>	<u>FAC</u>	
4. <u>Bromus diandrus</u>		<u>4</u>	<u>N</u>	<u>UPL</u>	
5. <u>Hordeum intercedens</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust <u>0</u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (*Hordeum intercedens*). Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP1756

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 3/2	85	7.5YR 4/4	15	C	RC/M	loamy	
5-14	10YR 4/2	95	7.5YR 4/6	5	C	M	loamy	
14-18	10YR 3/2	100					loamy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                   |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)               |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)           |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input checked="" type="checkbox"/> Depleted Matrix (F3)    |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)         |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)             |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)                  |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes   X   No \_\_\_\_\_

Remarks: Depleted matrix and redox dark surface observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No   X   Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No   X   Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No   X   Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes   X   No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, the presence of San Diego fairy shrimp indicates that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1757  
 Investigator(s): Beth Proccsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5452985308 Long: -117.022826256 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<u>      </u> = Total Cover
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
				<u>      </u> = Total Cover
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Rumex crispus</u>	<u>65</u>	<u>Yes</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Eleocharis macrostachya</u>	<u>5</u>	<u>No</u>	<u>FACW</u>	
3. <u>Festuca perennis</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>	
4. <u>Glebionis coronaria</u>	<u>4</u>	<u>No</u>	<u>UPL</u>	
5. <u>Malvella leprosa</u>	<u>1</u>	<u>No</u>	<u>FACU</u>	
6. <u>      </u>				
7. <u>      </u>				
8. <u>      </u>				
				<u>100</u> = Total Cover
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
				<u>100</u> = Total Cover
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Malvella leprosa). Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP1757

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Hydrology (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1758  
 Investigator(s): Beth Proccsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5458414785 Long: -117.024395009 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u>      </u>				
5. <u>      </u>				
= Total Cover				
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Festuca perennis</u>	93	Yes	FAC	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>Rumex crispus</u>	5	No	FAC	
3. <u>Eleocharis macrostachya</u>	1	No	FACW	
4. <u>Bromus diandrus</u>	1	No	UPL	
5. <u>      </u>				
6. <u>      </u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
7. <u>      </u>				
8. <u>      </u>				
= Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>				
= Total Cover				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>				
% Bare Ground in Woody Vine Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool consists predominantly of hydrophytic vegetation, but no ACOE vernal pool plant indicator species were present within the basin. Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP1758

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )	
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a			
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.			



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/27/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: SD1778  
 Investigator(s): Beth Procsal and Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5538125969 Long: -117.018381734 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year.					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: _____ %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of: _____ Multiply by: _____			
2. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	<u>5</u>	x 1 =	<u>5</u>
3. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species	<u>42</u>	x 2 =	<u>84</u>
4. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	<u>11</u>	x 3 =	<u>33</u>
5. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species	<u>1</u>	x 4 =	<u>4</u>
Total Cover: _____ %				UPL species		x 5 =	<u>0</u>
				Column Totals:	<u>59</u>	(A)	<u>126</u> (B)
				Prevalence Index = B/A = <u>2.14</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Lythrum hyssopifolia</u>	<u>5</u>	No	OBL	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Spergularia bocconi</u>	<u>10</u>	No	<input checked="" type="checkbox"/> FACW	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Melilotus indicus</u>	<u>1</u>	No	FACU	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Lepidium nitidum</u>	<u>1</u>	No	FAC	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <u>Festuca perennis</u>	<u>10</u>	No	FAC				
6. <u>Lepidium latipes</u>	<u>1</u>	No	FACW				
7. <u>Psilocarphus brevissimus</u>	<u>1</u>	No	FACW				
8. <u>Hordeum depressum</u>	<u>30</u>	Yes	FACW				
Total Cover: <u>59 %</u>							
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
2. _____		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: _____ %							
% Bare Ground in Herb Stratum <u>41 %</u>		% Cover of Biotic Crust _____ %					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus).							



## SOIL

Sampling Point: SD1778**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

**Indicators for Problematic Hydric Soils<sup>4</sup>:**

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

**Hydric Soil Present?** Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                           | <input checked="" type="checkbox"/> Aquatic Invertebrates (B13)        |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☒ No ☐ Depth (inches): 1Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☒ No ☐ Depth (inches): 0**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water, evidence of surface soil cracks, biotic crust, and aquatic invertebrates were all present at the time of the delineation, which indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: VPHCP 2068  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.553438 Long: -117.022832 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>      </u>
Hydric Soil Present? Yes <u>X</u> No <u>      </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Festuca perennis</u> 70 Y FAC 2. <u>Hordeum murinum</u> 5 N FACU 3. <u>Bromus diandrus</u> 15 N UPL 4. <u>      </u> 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 90 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>none</u> 2. <u>      </u> 90 = Total Cover				
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust <u>      </u>				

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. The vernal pool consists predominantly of hydrophytic vegetation, but no ACOE vernal pool plant indicator species were present within the basin. Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP 2068

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/2	98	7.5YR 4/6	2	C	M/RC	clay	
3-18	10YR 4/2	>99	7.5YR 4/6	<1	C	M	clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <u>X</u> No _____
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Remarks: Depleted matrix observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks and the presence of hydrophytic vegetation indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/9/2022  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP2336  
 Investigator(s): Beth Procsal, Andy Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.547932 Long: -117.018973 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>Tamarix ramosissima</u>	<u>1</u>	<u>YES</u>	<u>FAC</u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>1</u> = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>85</u> x 5 = <u>425</u> Column Totals: <u>91</u> (A) <u>446</u> (B) Prevalence Index = B/A = <u>4.9</u>
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Frankenia salina</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Erodium cicutarium</u>	<u>35</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Medicago polymorpha</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
4. <u>Rumex crispus</u>	<u>1</u>	<u>N</u>	<u>FAC</u>	
5. <u>Malvella leprosa</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Phalaris minor</u>	<u>50</u>	<u>Y</u>	<u>UPL</u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>91</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>8</u>		% Cover of Biotic Crust <u>0</u>		

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Malvella leprosa).



## SOIL

Sampling Point: VPHCP2336

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	No	X
----------------------	-----	----	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No    X    Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

**Wetland Hydrology Present?**      Yes      X      No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP2337  
 Investigator(s): Beth Procsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5479575628 Long: -117.014031229 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9 to 30 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u>      </u>
Hydric Soil Present?	Yes <u>X</u> No <u>      </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and meets the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
Sapling/Shrub Stratum (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
Herb Stratum (Plot size: <u>      </u> )					
1. <u>Rumex crispus</u>		20	Yes	FAC	
2. <u>Malvella leprosa</u>		5	No	FACU	
3. <u>Festuca perennis</u>		50	Yes	FAC	
4. <u>Bromus diandrus</u>		20	Yes	UPL	
5. <u>Brassica nigra</u>		1	No	UPL	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
Woody Vine Stratum (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
96 = Total Cover					
96 = Total Cover					
% Bare Ground in Herb Stratum <u>4</u> % Cover of Biotic Crust <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it also supports one vernal pool plant indicator species (Malvella leprosa). Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP2337

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	95	5YR 4/6	5	RM	M	CLAY LOAM	
4-12	10YR 3/2	85	5YR 4/6	15	RM	M	CLAY	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)                   |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)               |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)           |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)               |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7)         |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)             |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)                  |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: redox dark surface observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6)           | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area supports wetland hydrology.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/3/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: SD 3139  
 Investigator(s): Beth Procsal and JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5544254264 Long: -117.025446574 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="radio"/>	No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. The natural hydrology of the area, in general, has been altered due to off-road activity. The vegetation and hydrology of the seasonal depressions/vernal pools are problematic due to the seasonality of their presence with hydrology restricted to the winter and vegetation to the late winter and early spring months each year.					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>None</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>3</u> (B)			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <i>None</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total % Cover of: <u>    </u> Multiply by: <u>    </u>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OBL species	<u>20</u>	x 1 =	<u>20</u>
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species	<u>45</u>	x 2 =	<u>90</u>
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species	<u>    </u>	x 3 =	<u>0</u>
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species	<u>2</u>	x 4 =	<u>8</u>
Total Cover: <u>    </u> %				UPL species	<u>5</u>	x 5 =	<u>25</u>
				Column Totals:	<u>72</u>	(A)	<u>143</u> (B)
				Prevalence Index = B/A = <u>1.99</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <i>Plagiobothrys acanthocarpus</i>	<u>20</u>	Yes	OBL	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <i>Psilocarphus brevissimus</i>	<u>15</u>	Yes	FACW	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <i>Plantago elongata</i>	<u>30</u>	Yes	FACW	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <i>Erodium botrys</i>	<u>5</u>	No	UPL	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. <i>Deinandra fasciculata</i>	<u>2</u>	No	FACU				
6.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
7.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
8.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>72 %</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
Woody Vine Stratum				Hydrophytic Vegetation Present?			
1. <i>None</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>28 %</u>		% Cover of Biotic Crust <u>    </u> %					
Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support three vernal pool plant indicator species ( <i>Psilocarphus brevissimus</i> , <i>Plagiobothrys acanthocarpus</i> , and <i>Plantago elongata</i> ).							



## SOIL

Sampling Point: SD 3139

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☒ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks: Huerhuero loam soil series is on the Hydric Soils of San Diego County list obtained from the Natural Resource Conservation Service (NRCS; 2020). No soil pit was dug due to the sample point being a potential vernal pool and may support a listed fairy shrimp species. Hydric soils were assumed to be present due to the presence of hydrophytic vegetation and wetland hydrology.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input checked="" type="checkbox"/> Biotic Crust (B12)                 |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, evidence of a biotic crust indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug due to the fact that protocol fairy shrimp surveys were being conducted concurrently.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: VPHCP 3145  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.558649 Long: -117.019151 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>1</u> x 1 = <u>1</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>60</u> x 3 = <u>180</u> FACU species <u>14</u> x 4 = <u>56</u> UPL species <u>20</u> x 5 = <u>100</u> Column Totals: <u>95</u> (A) <u>337</u> (B) Prevalence Index = B/A = <u>3.5</u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca perennis</u>	<u>60</u>	<u>Y</u>	<u>FAC</u>		
2. <u>Erodium cicutarium</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>		
3. <u>Eryngium aristulatum parishii</u>	<u>1</u>	<u>N</u>	<u>OBL</u>		
4. <u>Bromus hordeaceus</u>	<u>3</u>	<u>N</u>	<u>FACU</u>		
5. <u>Festuca myuros</u>	<u>10</u>	<u>N</u>	<u>FACU</u>		
6. <u>Deinandra fasciculata</u>	<u>1</u>	<u>N</u>	<u>FACU</u>		
7. <u>      </u>					
8. <u>      </u>					
					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>5</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Eryngium aristulatum parishii).



## SOIL

Sampling Point: VPHCP 3145

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: SD3147  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5587066103 Long: -117.01892848 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>	
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.		

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>10</u> x 1 = <u>10</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>22</u> x 4 = <u>88</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>35</u> (A) <u>107</u> (B) Prevalence Index = B/A = <u>3.1</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Plagiobothrys acanthocarpus</u>		10	Yes	OBL	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Erodium botrys</u>		10	Yes	FACU	
3. <u>Festuca myuros</u>		10	Yes	FACU	
4. <u>Bromus hordeaceus</u>		1	No	FACU	
5. <u>Hedypnois cretica</u>		1	No	UPL	
6. <u>Spergularia bocconi</u>		1	No	FACW	
7. <u>Lamarckia aurea</u>		1	No	FACU	
8. <u>Juncus bufonius</u>		1	No	FACW	
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>65</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. While the sample area does not support a predominance of hydrophytic vegetation, it does support one vernal pool plant indicator species (Plagiobothrys acanthocarpus).



## SOIL

Sampling Point: SD3147

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
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Remarks: No soil pit was dug. The sampled area does not support hydrophytic vegetation and would not be considered a wetland. Therefore, it is assumed hydric soils are not present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply) <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Biotic Crust (B12) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <u>X</u> No _____    Depth (inches): <u>1</u> Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes <u>X</u> No _____    Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Although no surface water was present at the time of the delineation, the presence of surface soil cracks and San Diego fairy shrimp indicate that the area ponds water and supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan City/County: San Diego, CA Sampling Date: April 23, 2019  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: VPHCP 3151  
 Investigator(s): Beth Procsal, Jamie Sue McBee Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.558519 Long: -117.018826 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Yes        Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? Yes        (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>1</u> x 5 = <u>5</u> Column Totals: <u>23</u> (A) <u>90</u> (B) Prevalence Index = B/A = <u>3.9</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Psilocarphus brevissimus</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Deinandra fasciculata</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Mesembryanthemum nodiflorum</u>		<u>10</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Bromus hordeaceus</u>		<u>5</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Lepidium nitidum</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
6. <u>Glebionis coronaria</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>77</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. In addition to the vernal pool consisting predominately of hydrophytic vegetation, it does support one vernal pool plant indicator species (Psilocarphus brevissimus). Leaf litter is present in basin.



## SOIL

Sampling Point: VPHCP 3151

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a	
Remarks: Although no surface water was present at the time of the delineation, evidence of surface soil cracks indicate that the area ponds water and supports wetland hydrology.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3.26.20  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: 3152  
 Investigator(s): JR Sundberg, Raquel Atik Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.5584504738 Long: -117.018503279 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: Freshwater Emergent Wetland  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: The majority of the vegetation on the site has been disturbed due to past land uses. This feature was sampled during the growing season and does not meet the wetland criteria.			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>15</u> (A) <u>65</u> (B) Prevalence Index = B/A = <u>4.3</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Erodium botrys</u>		<u>10</u>	<u>Yes</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Bromus diandrus</u>		<u>5</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>85</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area is a vernal pool that receives runoff from a relatively small local micro-watershed. No ACOE vernal pool plant indicator species were present within the basin.



## SOIL

Sampling Point: 3152

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks: The sampled area supports a predominance of upland vegetation and does not meet the hydrophytic vegetation standard to be considered a wetland. Therefore, no soil pit was dug and hydric soils are not considered to be present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input checked="" type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input checked="" type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No _____    Depth (inches): _____ Saturation Present?    Yes _____ No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Although no surface water was present at the time of the delineation, the pool did retain water over the rainy season and fairy shrimp surveys were conducted within this pool. Therefore, evidence of saturation and water marks and the presence of immature fairy shrimp indicate that the area supports wetland hydrology. Water table level and saturation are not known as a soil pit was not dug.



## Drainages



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego, CA Sampling Date: 03/15/2018  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: A(1)  
 Investigator(s): Beth Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.56101 Long: -117.02230 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: R4SBA riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? No Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? No (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>x</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>x</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>x</u>			
Remarks: Sample point along Drainage A					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.	<u>Simmondsia chinensis</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>6</u> x 5 = <u>30</u> Column Totals: <u>8</u> (A) <u>37</u> (B) Prevalence Index = B/A = <u>4.625</u>
2.	<u>Rhus integrifolia</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	
3.					
4.					
5.					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1.	<u>Amsinckia sp.</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	<u>Bromus diandrus</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
3.	<u>Claytonia perfoliata</u>	<u>3</u>	<u>N</u>	<u>FAC</u>	
4.	<u>Carduus pycnocephalus</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
5.	<u>Marah macrocarpa</u>	<u>&lt;1</u>	<u>N</u>	<u>UPL</u>	
6.	<u>Parietaria hespera</u>	<u>8</u>	<u>Y</u>	<u>FACU</u>	
7.					
8.					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
2.					
					= Total Cover
% Bare Ground in Herb Stratum <u>30</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Leaf litter is present



## SOIL

Sampling Point: A(1)

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	x
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Remarks: Soil pit was not dug as no hydrophytic vegetation was present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

☐ Water Marks (B1) (**Riverine**)

☒ Sediment Deposits (B2) (**Riverine**)

☐ Drift Deposits (B3) (**Riverine**)

☐ Drainage Patterns (B10)

☐ Dry-Season Water Table (C2)

☐ Thin Muck Surface (C7)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Shallow Aquitard (D3)

☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No      x      Depth (inches):

Saturation Present?      Yes      No      x      Depth (inches):

(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: n/a

Remarks: Wetland hydrologic indicators are not present within the sampling point. Channel is 1 foot wide and 6 inches deep.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego Sampling Date: 03/15/18  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: A(2)  
 Investigator(s): B. Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.56111 Long: -117.02076 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: R4SBA Riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? No Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? No (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Sample point at upstream beginning (nick point) of Drainage A					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>6</u> x 5 = <u>30</u> Column Totals: <u>7</u> (A) <u>37</u> (B) Prevalence Index = B/A = <u>5.28</u>
1. <u>Artemisia californica</u>		5	Y	UPL	
2. <u>Encelia californica</u>		2	Y	UPL	
3. <u>      </u>					
4. <u>      </u>					
		7	= Total Cover		
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Cryptantha sp.</u>		1	N	UPL	
2. <u>Lepidium nitidum</u>		1	N	FAC	
3. <u>Bromus diandrus</u>		5	Y	UPL	
4. <u>Salsola tragus</u>		2	N	FACU	
5. <u>Erodium cicutarium</u>		1	N	UPL	
6. <u>Logfia [=Filago] gallica</u>		1	N	UPL	
7. <u>      </u>					
8. <u>      </u>					
		11	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>      </u>					
2. <u>      </u>					
		= Total Cover			
% Bare Ground in Herb Stratum <u>75</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Leaf litter is present



## SOIL

Sampling Point: A(2)**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No soil pit was dug as hydrophytic vegetation was not present

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☒ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes \_\_\_\_\_ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Just down from nick point where channel averages out. Channel is 1 foot wide and 4 inches deep.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego Sampling Date: 03/15/18  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: B(1)  
 Investigator(s): B. Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55877 Long: -117.02245 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: R4SBC Riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? No Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? No (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Sample point along Drainage C					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
1. <u>      </u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
				= Total Cover		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>Rhus integrifolia</u>		10	Y	UPL	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>11</u> (A) <u>53</u> (B) Prevalence Index = B/A = <u>4.82</u>	
2. <u>Foeniculum vulgare</u>		5	Y	UPL		
3. <u>Isocoma menziesii</u>		2	N	FAC		
4. <u>Brassica nigra</u>		2	N	UPL		
5. <u>Simmondsia chinensis</u>		1	N	UPL		
				20 = Total Cover		
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Hirschfeldia incana</u>		<1	N	UPL		
2. <u>Bromus madritensis rubens</u>		15	Y	UPL		
3. <u>Bromus diandrus</u>		5	N	UPL		
4. <u>Ambrosia confertiflora</u>		1	N	UPL		
5. <u>Brassica nigra</u>		2	N	UPL		
6. <u>Avena sp.</u>		5	N	UPL		
7. <u>      </u>						
8. <u>      </u>						
				29 = Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>      </u>						
				= Total Cover		
<b>% Bare Ground in Herb Stratum</b> <u>20</u> <b>% Cover of Biotic Crust</b> <u>0</u>						

Remarks: Leaf litter is present



## SOIL

Sampling Point: B(1)

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: Soil pit was not dug as no hydrophytic vegetation was present

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No    X    Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	X
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Channel is 3 feet wide by 1 foot deep.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego Sampling Date: 03/15/18  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: B(2)  
 Investigator(s): B. Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55804 Long: -117.02151 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: R4SBC Riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? No Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? No (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Sample point along Drainage C.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>      </u>					Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)	
2. <u>      </u>					Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. <u>      </u>					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
4. <u>      </u>						
				= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>      </u> )						
1. <u>Rhus integrifolia</u>		10	N	UPL	Prevalence Index worksheet:	
2. <u>Hirschfeldia incana</u>		20	Y	UPL	Total % Cover of: <u>      </u> Multiply by: <u>      </u>	
3. <u>Brassica nigra</u>		1	N	UPL	OBL species <u>0</u> x 1 = <u>0</u>	
4. <u>Simmondsia chinensis</u>		1	N	UPL	FACW species <u>0</u> x 2 = <u>0</u>	
5. <u>      </u>					FAC species <u>0</u> x 3 = <u>0</u>	
				32 = Total Cover	FACU species <u>0</u> x 4 = <u>0</u>	
Herb Stratum (Plot size: <u>      </u> )						
1. <u>Hirschfeldia incana</u>		20	Y	UPL	UPL species <u>7</u> x 5 = <u>35</u>	
2. <u>Bromus madritensis rubens</u>		15	Y	UPL	Column Totals: <u>7</u> (A) <u>35</u> (B)	
3. <u>      </u>					Prevalence Index = B/A = <u>5</u>	
4. <u>      </u>					Hydrophytic Vegetation Indicators:	
5. <u>      </u>					<u>      </u> Dominance Test is >50%	
6. <u>      </u>					<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>	
7. <u>      </u>					<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
8. <u>      </u>					<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
				35 = Total Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size: <u>      </u> )						
1. <u>      </u>					Hydrophytic Vegetation Present?	
2. <u>      </u>					Yes <u>      </u> No <u>X</u>	
				= Total Cover		
% Bare Ground in Herb Stratum <u>15</u>		% Cover of Biotic Crust <u>0</u>				

Remarks: In addition to leaf litter, tires, man-made debris, and a couch are present.



## SOIL

Sampling Point: B(2)

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: Soil pit was not dug as no hydrophytic vegetation was present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No    X    Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	X
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Channel is 1 foot wide and 4 inches deep.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego Sampling Date: 03/15/18  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: B(b)(1)  
 Investigator(s): B. Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55995 Long: -117.02047 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: Riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? No Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? No (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Sample point at beginning (nick point) of Drainage B					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>      </u>					Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)	
2. <u>      </u>					Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. <u>      </u>					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
4. <u>      </u>						
				= Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				Prevalence Index worksheet:	
1. <u>Rhus integrifolia</u>		30	Y	UPL	Total % Cover of: <u>0</u> Multiply by: <u>      </u>	
2. <u>Artemisia californica</u>		10	Y	UPL	OBL species <u>0</u> x 1 = <u>0</u>	
3. <u>Peritoma [=Isomeris] arborea</u>		<1	N	UPL	FACW species <u>0</u> x 2 = <u>0</u>	
4. <u>      </u>					FAC species <u>0</u> x 3 = <u>0</u>	
5. <u>      </u>					FACU species <u>0</u> x 4 = <u>0</u>	
				7 = Total Cover	UPL species <u>7</u> x 5 = <u>35</u>	
					Column Totals: <u>7</u> (A) <u>35</u> (B)	
					Prevalence Index = B/A = <u>5</u>	
Herb Stratum	(Plot size: <u>      </u> )				Hydrophytic Vegetation Indicators:	
1. <u>Deinandra [=Hemizonia] fasciculata</u>		2	Y	UPL	<u>      </u> Dominance Test is >50%	
2. <u>Bromus madritensis rubens</u>		5	Y	UPL	<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>	
3. <u>Centaurea melitensis</u>		<1	N	UPL	<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
4. <u>Selaginella cinerascens</u>		1	N	UPL	<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5. <u>      </u>						
6. <u>      </u>						
7. <u>      </u>						
8. <u>      </u>						
				9 = Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				Hydrophytic Vegetation Present?	
1. <u>      </u>					Yes <u>      </u> No <u>X</u>	
2. <u>      </u>						
				= Total Cover		
% Bare Ground in Herb Stratum <u>40</u>		% Cover of Biotic Crust <u>0</u>				

Remarks: Leaf litter is present



## SOIL

Sampling Point: B(b)(1)

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: Soil pit was not dug as no hydrophytic vegetation was present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No    X    Depth (inches):

Saturation Present?      Yes      No      X      Depth (inches):

(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	X
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Channel is 1 foot wide and 4 inches deep.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego Sampling Date: 03/15/18  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: B(b)(2)  
 Investigator(s): B. Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55867 Long: -117.02200 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? No Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? No (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: Sample point along Drainage B just before confluence with Drainage C	

## VEGETATION – Use scientific names of plants.

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Remarks: Leaf litter is present



## SOIL

Sampling Point: B(b)(2)

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	No	X
----------------------	-----	----	---

Remarks: Soil pit was not dug as no hydrophytic vegetation was present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No    X    Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	X
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Channel is 2 feet wide and 6 inches deep.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego Sampling Date: 03/15/18  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: D(1)  
 Investigator(s): B. Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55695 Long: -117.02386 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? No Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? No (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Sample point along Drainage D.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>      </u>					Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)	
2. <u>      </u>					Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. <u>      </u>					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
4. <u>      </u>						
				= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>      </u> )						
1. <u>Rhus integrifolia</u>		15	Y	UPL	Total % Cover of: <u>0</u> Multiply by: <u>      </u>	
2. <u>Artemisia californica</u>		40	Y	UPL	OBL species <u>0</u> x 1 = <u>0</u>	
3. <u>Peritoma [=Isomeris] arborea</u>		5	N	UPL	FACW species <u>0</u> x 2 = <u>0</u>	
4. <u>Rhus integrifolia</u>		<1	N	UPL	FAC species <u>0</u> x 3 = <u>0</u>	
5. <u>      </u>					FACU species <u>0</u> x 4 = <u>0</u>	
				61	= Total Cover	UPL species <u>6</u> x 5 = <u>30</u>
Herb Stratum (Plot size: <u>      </u> )						
1. <u>Pseudognaphalium [=Gnaphalium] californicum</u>		<1	Y	UPL	Column Totals: <u>6</u> (A) <u>30</u> (B)	
2. <u>Bromus madritensis rubens</u>		<1	Y	UPL	Prevalence Index = B/A = <u>5</u>	
3. <u>      </u>					Hydrophytic Vegetation Indicators:	
4. <u>      </u>					<u>      </u> Dominance Test is >50%	
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6. <u>      </u>					<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
7. <u>      </u>					<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
8. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
				2	= Total Cover	Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u>
Woody Vine Stratum (Plot size: <u>      </u> )						
1. <u>      </u>						
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>5</u>		% Cover of Biotic Crust <u>0</u>				

Remarks: Leaf litter is present



## SOIL

Sampling Point: D(1)

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: Soit pit was not dug as no hydrophytic vegetation was present

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No ☒      Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	X
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Channel is 1 foot wide and 4 inches deep. Exposed cobble in some areas of the channel. Moss is not present in channel.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego Sampling Date: 03/15/18  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: E(1)  
 Investigator(s): B. Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55792 Long: -117.02454 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: R4SBA Riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? No Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? No (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Sample point along Drainage E					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25%</u> (A/B)
1.					
2.					
3.					
4.					
			= Total Cover		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.	<u>Artemisia californica</u>	<u>45</u>	<u>Y</u>	<u>UPL</u>	<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>6</u> x 5 = <u>30</u> Column Totals: <u>7</u> (A) <u>36</u> (B) Prevalence Index = B/A = <u>5.14</u>
2.	<u>Salvia apiana</u>	<u>1</u>	<u>Y</u>	<u>UPL</u>	
3.	<u>Simmondsia chinensis</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
4.					
5.					
		<u>47</u>	= Total Cover		
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1.	<u>Crassula connata</u>	<u>1</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	<u>Pterostegia drymarioides</u>	<u>&lt;1</u>	<u>N</u>	<u>UPL</u>	
3.	<u>Hirschfeldia incana</u>	<u>1</u>	<u>Y</u>	<u>UPL</u>	
4.	<u>Isocoma menziesii</u>	<u>&lt;1</u>	<u>N</u>	<u>FAC</u>	
5.	<u>Pseudognaphalium [=Gnaphalium] californicum</u>	<u>&lt;1</u>	<u>N</u>	<u>UPL</u>	
6.					
7.					
8.					
		<u>5</u>	= Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2.					
			= Total Cover		
% Bare Ground in Herb Stratum <u>15</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Leaf litter and moss are present in channel.



## SOIL

Sampling Point: E(1)

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	No	X
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Remarks: Soil pit was not dug as no hydrophytic vegetation was present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- \_\_\_ Surface Water (A1)
- \_\_\_ High Water Table (A2)
- \_\_\_ Saturation (A3)
- \_\_\_ Water Marks (B1) **(Nonriverine)**
- \_\_\_ Sediment Deposits (B2) **(Nonriverine)**
- \_\_\_ Drift Deposits (B3) **(Nonriverine)**
- \_\_\_ Surface Soil Cracks (B6)
- \_\_\_ Inundation Visible on Aerial Imagery (B7)
- \_\_\_ Water-Stained Leaves (B9)

☐ Salt Crust (B11)  
☐ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Tilled Soils (C6)  
☐ Thin Muck Surface (C7)  
☐ Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No    X    Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	X
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Channel is 1 foot wide and 4 inches deep.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village City/County: San Diego Sampling Date: 03/15/18  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: E(2)  
 Investigator(s): B. Procsal, JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): LRR-C Lat: 32.55652 Long: -117.02473 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobby loam, 30 to 50 percent slopes NWI classification: R4SBA Riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? No Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? No (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Sample point along Drainage E.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>7</u> x 5 = <u>35</u> Column Totals: <u>8</u> (A) <u>39</u> (B) Prevalence Index = B/A = <u>4.875</u>
1. <u>Artemisia californica</u>		5	Y	UPL	
2. <u>Simmondsia chinensis</u>		1	N	UPL	
3. <u>      </u>					
4. <u>      </u>					
		6 = Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Hirschfeldia incana</u>		3	N	UPL	
2. <u>Pseudognaphalium [=Gnaphalium] californicum</u>		2	N	UPL	
3. <u>Bromus madritensis rubens</u>		20	Y	UPL	
4. <u>Centaurea melitensis</u>		<1	N	UPL	
5. <u>Malosma laurina</u>		<1	N	UPL	
6. <u>Marrubium vulgare</u>		<1	N	FACU	
7. <u>      </u>					
8. <u>      </u>					
		28 = Total Cover			
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>      </u>					
2. <u>      </u>					
		= Total Cover			
% Bare Ground in Herb Stratum <u>40</u>		% Cover of Biotic Crust <u>0</u>			

Remarks: Leaf litter and grass thatch are present



## SOIL

Sampling Point: E(2)

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	X
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Remarks: Soil pit was not dug as no hydrophytic vegetation was present.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?      Yes      No    X    Depth (inches):

Water Table Present?      Yes      No      X      Depth (inches):

Saturation Present?      Yes      No    X    Depth (inches):

(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	X
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Channel is 1 foot wide and 6 inches deep
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# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/13/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: G(1)  
 Investigator(s): JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): C Lat: 32.55935 Long: -117.01771 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: R4SBC riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u>      </u>		
Remarks: Sample point along Drainage G, just downstream from confluence with G(b). Coastal sage scrub on low terrace, similar landscape position to nearby potential wetlands			

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>Salix lasiolepis</u>	15	Yes	FACW	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>15</u>		= Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>15</u> x 2 = <u>30</u> FAC species <u>25</u> x 3 = <u>75</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>55</u> (A) <u>170</u> (B) Prevalence Index = B/A = <u>3.09</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>20'x20'</u> )				
1. <u>Baccharis salicifolia</u>	10	Yes	FAC	
2. <u>Baccharis sarothroides</u>	5	Yes	FACU	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>15</u> = Total Cover				
<b>Herb Stratum</b> (Plot size: <u>20'x20'</u> )				
1. <u>Claytonia perfoliata</u>	15	Yes	FAC	
2. <u>Festuca myuros</u>	5	Yes	UPL	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
3. <u>Carduus pycnocephalus</u>	5	Yes	FACU	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Woody Vine Stratum</b> (Plot size: <u>      </u> ) 1. <u>      </u> 2. <u>      </u> <u>      </u> = Total Cover % Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust <u>      </u>
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>25</u> = Total Cover				

Remarks: A lot of leaf litter and woody debris, moss cover in some areas



## SOIL

Sampling Point: WDP G-1**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 2/2	100					sandy loam	
2-14	10YR 3/2	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No soil indicators present.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <u>X</u> Saturation (A3)   | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
X Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes X No \_\_\_\_\_ Depth (inches): 12  
(includes capillary fringe)**Wetland Hydrology Present?** Yes X No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Creek is 5 feet from sample point, surfacr water was from last rain on 2/10/20.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/14/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: G(2)  
 Investigator(s): Beth Procsal and Anna Leavitt Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55935 Long: -117.01771 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: R4SBC

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>			
Remarks: Sample point in Drainage G where it converges with Drainage F.					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>Salix lasiolepis</i>	15	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)			
2.				Total Number of Dominant Species Across All Strata: <u>6</u> (B)			
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0 %</u> (A/B)			
4.							
Total Cover: <u>15 %</u>							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <i>Baccharis salicifolia</i>	10	Yes	FAC	Total % Cover of: <u>15</u> Multiply by: <u>x 1 = 0</u>			
2. <i>Baccharis sarothroides</i>	5	Yes	FACU	FACW species <u>15</u> x 2 = <u>30</u>			
3.				FAC species <u>25</u> x 3 = <u>75</u>			
4.				FACU species <u>10</u> x 4 = <u>40</u>			
5.				UPL species <u>5</u> x 5 = <u>25</u>			
Total Cover: <u>15 %</u>				Column Totals: <u>55</u> (A) <u>170</u> (B)			
Herb Stratum				Prevalence Index = B/A = <u>3.09</u>			
1. <i>Claytonia perfoliata</i>	15	Yes	FAC	Hydrophytic Vegetation Indicators:			
2. <i>Festuca myuros</i>	5	Yes	FACU	<input checked="" type="checkbox"/> Dominance Test is >50%			
3. <i>Carduus pinocephalus</i>	5	Yes	UPL	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
4.				<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
5.				<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
7.							
8.							
Total Cover: <u>25 %</u>							
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>			
1. <i>None</i>							
2.							
Total Cover: <u>  % </u>							
% Bare Ground in Herb Stratum <u>10 %</u>		% Cover of Biotic Crust <u>10 %</u>					

Remarks: A lot of litter and woody debris. Moss cover in some areas.



## SOIL

Sampling Point: G(2)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 2/2	100					sandy loam	
2-14	10YR 3/2	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5) (LRR C)  
☐ 1 cm Muck (A9) (LRR D)  
☐ Depleted Below Dark Surface (A11)  
☐ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F2)  
☐ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)  
☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:<sup>4</sup>

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☐ No ☒

Remarks: No soil indicators present.

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)  
☐ High Water Table (A2)  
☒ Saturation (A3)  
☐ Water Marks (B1) (Nonriverine)  
☐ Sediment Deposits (B2) (Nonriverine)  
☐ Drift Deposits (B3) (Nonriverine)  
☐ Surface Soil Cracks (B6)  
☐ Inundation Visible on Aerial Imagery (B7)  
☐ Water-Stained Leaves (B9)  
☐ Salt Crust (B11)  
☐ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Plowed Soils (C6)  
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Depth (inches): \_\_\_\_\_

Water Table Present? Yes ☐ No ☒

Depth (inches): \_\_\_\_\_

Saturation Present? Yes ☒ No ☐  
(includes capillary fringe)Depth (inches): 12Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/14/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: G(3)  
 Investigator(s): Beth Procsal and Anna Leavitt Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): canyon Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C Lat: 32.55917 Long: -117.01750 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: R4SBC riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u>      </u>			
Remarks: Sample point just outside active channel of Drainage G.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>      </u>					Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)	
2. <u>      </u>					Total Number of Dominant Species Across All Strata: <u>1</u> (B)	
3. <u>      </u>					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
4. <u>      </u>						
				= Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				Prevalence Index worksheet:	
1. <u>      </u>					Total % Cover of: <u>      </u> Multiply by: <u>      </u>	
2. <u>      </u>					OBL species <u>      </u> x 1 = <u>      </u>	
3. <u>      </u>					FACW species <u>      </u> x 2 = <u>      </u>	
4. <u>      </u>					FAC species <u>      </u> x 3 = <u>      </u>	
5. <u>      </u>					FACU species <u>95</u> x 4 = <u>380</u>	
				= Total Cover	UPL species <u>      </u> x 5 = <u>      </u>	
					Column Totals: <u>      </u> (A) <u>      </u> (B)	
					Prevalence Index = B/A = <u>4.0</u>	
Herb Stratum	(Plot size: <u>      </u> )				Hydrophytic Vegetation Indicators:	
1. <u>Festuca myuros</u>		<u>95</u>	<u>Yes</u>	<u>FACU</u>	<u>      </u> Dominance Test is >50%	
2. <u>      </u>					<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>	
3. <u>      </u>					<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
4. <u>      </u>					<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5. <u>      </u>						
6. <u>      </u>						
7. <u>      </u>						
8. <u>      </u>						
				<u>95</u>	= Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				Hydrophytic Vegetation Present?	
1. <u>      </u>					Yes <u>      </u>	
2. <u>      </u>					No <u>X</u>	
					= Total Cover	
% Bare Ground in Herb Stratum <u>5</u>		% Cover of Biotic Crust <u>      </u>				

Remarks: Pedestrian trail near drainage, dominated by non-native grasses.



## SOIL

Sampling Point: WDP G-3**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-14	10YR 3/2	100					Sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No soil indicators present.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <u>X</u> Saturation (A3)   | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes X No \_\_\_\_\_ Depth (inches): 12  
(includes capillary fringe)**Wetland Hydrology Present?** Yes X No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Pedestrian path is close to drainage; saturation was present.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/13/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: G(b)(2)  
 Investigator(s): JR. Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55948 Long: -117.01789 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Wetland Hydrology Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Remarks: Sample point just outside ephemeral channel where Drainage G and G(b) converge.					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Total Number of Dominant Species Across All Strata: <u>2</u> (B)			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0 %</u> (A/B)			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>Baccharis salicifolia</u>	<u>35</u>	<u>Yes</u>	<u>FAC</u>	Total % Cover of: <u>    </u> Multiply by: <u>    </u>			
2. <u>Baccharis sarothroides</u>	<u>5</u>	<u>No</u>	<u>FACU</u>	OBL species <u>    </u> x 1 = <u>0</u>			
3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACW species <u>    </u> x 2 = <u>0</u>			
4.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FAC species <u>35</u> x 3 = <u>105</u>			
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FACU species <u>57</u> x 4 = <u>228</u>			
Total Cover: <u>40 %</u>				UPL species <u>10</u> x 5 = <u>50</u>			
				Column Totals: <u>102</u> (A) <u>383</u> (B)			
				Prevalence Index = B/A = <u>3.75</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Festuca myuros</u>	<u>40</u>	<u>Yes</u>	<u>FACU</u>	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Baccharis sarothroides</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3. <u>Marrubium vulgare</u>	<u>2</u>	<u>No</u>	<u>FACU</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. <u>Hesperocnide tenella</u>	<u>10</u>	<u>No</u>	<u>UPL</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
6.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
7.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
8.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>62 %</u>							
Woody Vine Stratum				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
1. <u>None</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>			
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>20 %</u>		% Cover of Biotic Crust <u>0 %</u>					

Remarks: Litter in herb stratum



# SOIL

Sampling Point: G(b)(2)

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			
0-2	10YR 3/2	100			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	sand	more organic at surface
2-18	10YR 4/2	100			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	sand	with pebbles
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

**Indicators for Problematic Hydric Soils:<sup>4</sup>**

- ☐ 1 cm Muck (A9) (LRR C)
- ☐ 2 cm Muck (A10) (LRR B)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☐ No ☒

Remarks: No soil indicators present.

# HYDROLOGY

**Wetland Hydrology Indicators:**

**Primary Indicators (any one indicator is sufficient)**

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (Riverine)
- ☐ Sediment Deposits (B2) (Riverine)
- ☐ Drift Deposits (B3) (Riverine)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): _____
Water Table Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): <u>14</u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: saturation observed only below 12 inches, does not meet definition of indicator



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/13/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: WDP G(b)-3  
 Investigator(s): JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C Lat: 32.55947 Long: -117.01792 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: R4SBC (riverine)  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>      </u> No <u>X</u>		
Remarks: Sample point along Drainage G(b)			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>40</u> x 4 = <u>160</u> UPL species <u>57</u> x 5 = <u>285</u> Column Totals: <u>97</u> (A) <u>445</u> (B) Prevalence Index = B/A = <u>4.5</u>
1. <u>Simmondsia chinensis</u>		40	Yes	UPL	
2. <u>Baccharis sarothroides</u>		5	No	FACU	
3. <u>Artemisia californica</u>		2	No	UPL	
4. <u>      </u>					
		47 = Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Festuca myuros</u>		30	Yes	FACU	
2. <u>Centaurea melitensis</u>		5	No	UPL	
3. <u>Melilotus indicus</u>		5	No	FACU	
4. <u>Avena barbata</u>		10	Yes	UPL	
		50 = Total Cover			
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>      </u>					
2. <u>      </u>					
		= Total Cover			
% Bare Ground in Herb Stratum <u>5</u> % Cover of Biotic Crust <u>      </u>					

Remarks: Litter and cobble present - rest pf cover in herb stratum.



## SOIL

Sampling Point: WDP G(b)-3**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 3/3	100					sandy loam	
6-16	10YR 3/2	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐
- 1 cm Muck (A9) (
- LRR C**
- )
- 
- ☐
- 2 cm Muck (A10) (
- LRR B**
- )
- 
- ☐
- Reduced Vertic (F18)
- 
- ☐
- Red Parent Material (TF2)
- 
- ☐
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No soil indicators present.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐
- Water Marks (B1) (
- Riverine**
- )
- 
- ☐
- Sediment Deposits (B2) (
- Riverine**
- )
- 
- ☐
- Drift Deposits (B3) (
- Riverine**
- )
- 
- ☐
- Drainage Patterns (B10)
- 
- ☐
- Dry-Season Water Table (C2)
- 
- ☐
- Thin Muck Surface (C7)
- 
- ☐
- Crayfish Burrows (C8)
- 
- ☐
- Saturation Visible on Aerial Imagery (C9)
- 
- ☐
- Shallow Aquitard (D3)
- 
- ☐
- FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes \_\_\_\_\_ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No hydrology indicators present.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/18/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: O(1)  
 Investigator(s): JR. Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55788 Long: -117.03729 Datum: NAD 83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: R4SBC

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Wetland Hydrology Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Remarks: Sample point at downstream terminus of Drainage O before it empties into a culvert.					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.				Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0 %</u> (A/B)			
4.							
Total Cover: <u>    </u> %							
<u>Sapling/Shrub Stratum</u>				<b>Prevalence Index worksheet:</b>			
1. <u>Baccharis salicifolia</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	Total % Cover of:		Multiply by:	
2. <u>Ricinus communis</u>	<u>5</u>	<u>No</u>	<u>FACW*</u>	OBL species	<u>    </u> x 1 =	<u>0</u>	
3. <u>Nicotiana glauca</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	FACW species	<u>5</u> x 2 =	<u>10</u>	
4.				FAC species	<u>35</u> x 3 =	<u>105</u>	
5.				FACU species	<u>    </u> x 4 =	<u>0</u>	
Total Cover: <u>40 %</u>				UPL species	<u>    </u> x 5 =	<u>0</u>	
<u>Herb Stratum</u>				Column Totals:	<u>40</u> (A)	<u>115</u> (B)	
1. <u>None</u>				Prevalence Index = B/A = <u>2.88</u>			
2.				<b>Hydrophytic Vegetation Indicators:</b>			
3.				<input checked="" type="checkbox"/> Dominance Test is >50%			
4.				<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
5.				<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
6.				<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
8.							
Total Cover: <u>    </u> %							
<u>Woody Vine Stratum</u>				<b>Hydrophytic Vegetation Present?</b>			
1. <u>None</u>				Yes <input checked="" type="radio"/> No <input type="radio"/>			
2.							
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>0 %</u>		% Cover of Biotic Crust <u>0 %</u>					

Remarks: Herb stratum absent due to recent stream flow and sediment deposits.



## SOIL

Sampling Point: O(1)**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			
0-13	7.5YR 5/2	100					sandy loam	
13-20	7.5YR 5/3	100					sandy loam	contains some gravel

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- ☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5) (LRR C)  
☐ 1 cm Muck (A9) (LRR D)  
☐ Depleted Below Dark Surface (A11)  
☐ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F2)  
☐ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)  
☐ Vernal Pools (F9)

**Indicators for Problematic Hydric Soils:<sup>4</sup>**

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☐ No ☒

Remarks: Sample area located upstream of a culvert along an ephemeral drainage channel. The area has a dynamic sedimentation and erosional regime. It is not expected that the water resides on-site long enough for a hydric soil to develop.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)  
☐ High Water Table (A2)  
☐ Saturation (A3)  
☐ Water Marks (B1) (Nonriverine)  
☐ Sediment Deposits (B2) (Nonriverine)  
☐ Drift Deposits (B3) (Nonriverine)  
☐ Surface Soil Cracks (B6)  
☐ Inundation Visible on Aerial Imagery (B7)  
☐ Water-Stained Leaves (B9)  
☐ Salt Crust (B11)  
☐ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Plowed Soils (C6)  
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☒ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): \_\_\_\_\_Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Sample area located upstream from a culvert and ephemeral drainage. The culvert may partially slow the flow during rain events increasing sediment deposition artificially. Despite conducting the survey within a week of significant rainfall, the soil was not saturated. Ephemeral channel qualifies as a non-wetland water based on the ordinary high water mark.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/18/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: O(2)  
 Investigator(s): JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55781 Long: -117.03644 Datum: NAD 83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Wetland Hydrology Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Remarks: Sample area is a relatively flat terrace just outside ephemeral Drainage O. The terrace is approximately two to three feet above the channel bottom.					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <i>None</i>				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2.				Total Number of Dominant Species Across All Strata:	<u>4</u> (B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>25.0</u> % (A/B)
4.					
Total Cover: <u>    </u> %					
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1. <i>Baccharis salicifolia</i>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	Total % Cover of:	Multiply by:
2.				OBL species	x 1 = <u>0</u>
3.				FACW species	x 2 = <u>0</u>
4.				FAC species	<u>40</u> x 3 = <u>120</u>
5.				FACU species	<u>5</u> x 4 = <u>20</u>
Total Cover: <u>40</u> %				UPL species	<u>12</u> x 5 = <u>60</u>
				Column Totals:	<u>57</u> (A) <u>200</u> (B)
				Prevalence Index = B/A = <u>3.51</u>	
Herb Stratum				Hydrophytic Vegetation Indicators:	
1. <i>Parietaria hespera</i>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	<input checked="" type="checkbox"/> Dominance Test is >50%	
2. <i>Urtica urens</i>	<u>5</u>	<u>Yes</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>	
3. <i>Glebionis coronaria</i>	<u>2</u>	<u>No</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
4.				<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5.					
6.					
7.					
8.					
Total Cover: <u>12</u> %					
Woody Vine Stratum				Hydrophytic Vegetation Present?	
1. <i>Clematis pauciflora</i>	<u>5</u>	<u>Yes</u>	<u>NI</u>	Yes <input type="radio"/>	No <input checked="" type="radio"/>
2.					
Total Cover: <u>5</u> %					
% Bare Ground in Herb Stratum <u>    </u> %			% Cover of Biotic Crust <u>    </u> %		

Remarks: Vegetation does not meet criteria to be hydrophytic.



## SOIL

Sampling Point: O(2)**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			
0-20	7.5YR 4/3	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- ☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5) (LRR C)  
☐ 1 cm Muck (A9) (LRR D)  
☐ Depleted Below Dark Surface (A11)  
☐ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F2)  
☐ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)  
☐ Vernal Pools (F9)

**Indicators for Problematic Hydric Soils:<sup>4</sup>**

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☐ No ☒

Remarks: No hydric soil indicators present.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)  
☐ High Water Table (A2)  
☐ Saturation (A3)  
☐ Water Marks (B1) (Nonriverine)  
☐ Sediment Deposits (B2) (Nonriverine)  
☐ Drift Deposits (B3) (Nonriverine)  
☐ Surface Soil Cracks (B6)  
☐ Inundation Visible on Aerial Imagery (B7)  
☐ Water-Stained Leaves (B9)  
☐ Salt Crust (B11)  
☐ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Plowed Soils (C6)  
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☒ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☒

Depth (inches): \_\_\_\_\_

Water Table Present? Yes ☐ No ☒

Depth (inches): \_\_\_\_\_

Saturation Present? Yes ☐ No ☒  
(includes capillary fringe)

Depth (inches): \_\_\_\_\_

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Drift deposits were observed at the edge of the stream channel. Ephemeral channel qualifies as a non-wetland water based on the ordinary high water mark present.



# WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/18/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: O(4)  
 Investigator(s): JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa top Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: 32.55777 Long: -117.03601 Datum: NAD 83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: R4SBC

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☒ Soil ☐ or Hydrology ☒ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Wetland Hydrology Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Remarks: Sample point along Drainage O					

## VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)			
2.				Total Number of Dominant Species Across All Strata: <u>3</u> (B)			
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3 %</u> (A/B)			
4.							
Total Cover: <u>    </u> %							
Sapling/Shrub Stratum				Prevalence Index worksheet:			
1. <u>Artemisia californica</u>	<u>5</u>	<u>Yes</u>	<u>UPL</u>	Total % Cover of: <u>    </u> Multiply by: <u>    </u>			
2. <u>Yucca schidigera</u>	<u>1</u>	<u>No</u>	<u>UPL</u>	OBL species	<u>    </u>	x 1 =	<u>0</u>
3. <u>Baccharis sarothroides</u>	<u>3</u>	<u>Yes</u>	<u>FACW*</u>	FACW species	<u>3</u>	x 2 =	<u>6</u>
4.				FAC species	<u>    </u>	x 3 =	<u>0</u>
5.				FACU species	<u>    </u>	x 4 =	<u>0</u>
Total Cover: <u>9</u> %				UPL species	<u>41</u>	x 5 =	<u>205</u>
				Column Totals:	<u>44</u>	(A)	<u>211</u> (B)
				Prevalence Index = B/A = <u>4.80</u>			
Herb Stratum				Hydrophytic Vegetation Indicators:			
1. <u>Foeniculum vulgare</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%			
2. <u>Glebionis coronaria</u>	<u>30</u>	<u>Yes</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>			
3.				<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4.				<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5.							
6.							
7.							
8.							
Total Cover: <u>35</u> %							
Woody Vine Stratum				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.			
1. <u>None</u>				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>			
2.							
Total Cover: <u>    </u> %							
% Bare Ground in Herb Stratum <u>60</u> %			% Cover of Biotic Crust <u>0</u> %				

Remarks: Some litter in herb stratum. Dead stalks from last year's herbs.



# SOIL

Sampling Point: O(4)

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture <sup>3</sup>	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/3	100					sandy loam	
4-18	10YR 4/3	100					loamy sand	change in texture

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix.    <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

<sup>3</sup>Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

**Indicators for Problematic Hydric Soils:<sup>4</sup>**

- ☐ 1 cm Muck (A9) (LRR C)
- ☐ 2 cm Muck (A10) (LRR B)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>4</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?    Yes ☐    No ☒

Remarks: No soil indicators present

# HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                    |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)
- ☐ Sediment Deposits (B2) (Riverine)
- ☐ Drift Deposits (B3) (Riverine)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?    Yes ☐    No ☒    Depth (inches): \_\_\_\_\_

Water Table Present?    Yes ☐    No ☒    Depth (inches): \_\_\_\_\_

Saturation Present?    Yes ☐    No ☒    Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present?    Yes ☐    No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Linear ephemeral stream which floods during storm events, water not able to reside on-site and develop any wetland hydrology indicators.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 2/18/2020  
 Applicant/Owner: Pardee Homes State: CA Sampling Point: O-5  
 Investigator(s): JR Sundberg Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): bottom of hillslope Local relief (concave, convex, none): none Slope (%): 0-2  
 Subregion (LRR): C Lat: 32.55794 Long: -117.03721 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: R4SBC  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u> No <u>X</u>
Hydric Soil Present?	Yes <u>      </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>      </u> No <u>X</u>		
Remarks: <u>Sample point in uplands near western end of Drainage O.</u>			

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>90</u> x 5 = <u>450</u> Column Totals: <u>      </u> (A) <u>450</u> (B) Prevalence Index = B/A = <u>5.0</u>
1.					
2.					
3.					
4.					
		= Total Cover			
Herb Stratum	(Plot size: <u>20'x20'</u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Glebionis coronaria</u>	<u>80</u>	<u>Yes</u>	<u>UPL</u>	
2.	<u>Bromus madritensis</u>	<u>10</u>	<u>No</u>	<u>UPL</u>	
3.					
4.					
5.					
6.					
7.					
8.					
		<u>90</u>	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1.					
2.					
		= Total Cover			
% Bare Ground in Herb Stratum <u>10</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: Disturbed uplands next to ephemeral channel



## SOIL

Sampling Point: WDP O-5**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 4/3	100					fine sandy loam	
8-18	10YR 4/2	100					loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐
- 1 cm Muck (A9) (
- LRR C**
- )
- 
- ☐
- 2 cm Muck (A10) (
- LRR B**
- )
- 
- ☐
- Reduced Vertic (F18)
- 
- ☐
- Red Parent Material (TF2)
- 
- ☐
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No soil indicators present.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐
- Water Marks (B1) (
- Riverine**
- )
- 
- ☐
- Sediment Deposits (B2) (
- Riverine**
- )
- 
- ☐
- Drift Deposits (B3) (
- Riverine**
- )
- 
- ☐
- Drainage Patterns (B10)
- 
- ☐
- Dry-Season Water Table (C2)
- 
- ☐
- Thin Muck Surface (C7)
- 
- ☐
- Crayfish Burrows (C8)
- 
- ☐
- Saturation Visible on Aerial Imagery (C9)
- 
- ☐
- Shallow Aquitard (D3)
- 
- ☐
- FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
(includes capillary fringe)**Wetland Hydrology Present?** Yes \_\_\_\_\_ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No hydrology indicators present.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 3/17/2021  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: S-1  
 Investigator(s): Beth Procsal, Gerry Scheid Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): bank of drainage Local relief (concave, convex, none): concave Slope (%): 0-2  
 Subregion (LRR): C - Mediterranean California Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30 to 50 percent slopes NWI classification: riverine  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation X, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: Sample point along Drainage S.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)
1. <u>Tamarix ramosissima</u>	30	Yes	FAC	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<b>Sapling/Shrub Stratum</b> (Plot size: _____)				
1. <u>Baccharis salicifolia</u>	50	Yes	FAC	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
<b>Herb Stratum</b> (Plot size: _____)				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Urtica urens</u>	60	Yes	UPL	
2. <u>Helminthotheca echioides</u>	40	Yes	FAC	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: _____)				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____ <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>none</u>	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>0</u>	% Cover of Biotic Crust <u>0</u>			

Remarks: A lot of leaf litter and woody debris.



## SOIL

Sampling Point: S-1**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-14	10YR 3/3	100	-	-	-	-	sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☒ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

(includes capillary fringe)

**Wetland Hydrology Present?** Yes \_\_\_\_\_ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Weak hydrology indicator, indicating a larger flood event and nothing frequent.



## ATTACHMENT 5

### Wetland Determination Data Forms (Upland Points)



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 12-UPL  
 Investigator(s): Andrew Smisek, Chris Thomson Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55893 Long: -117.01911 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation   x  , Soil   x  , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   x   No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>  x  </u> Hydric Soil Present? Yes <u>      </u> No <u>  x  </u> Wetland Hydrology Present? Yes <u>      </u> No <u>  x  </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>  x  </u>
Remarks: Paired sample point for feature #12.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																					
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>  1  </u> (A) Total Number of Dominant Species Across All Strata: <u>  3  </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>  33.3%  </u> (A/B)																					
2. _____	_____	_____	_____																						
3. _____	_____	_____	_____																						
4. _____	_____	_____	_____																						
= Total Cover				<b>Prevalence Index worksheet:</b> <table style="width: 100%;"> <tr> <td colspan="2">Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>  0  </u></td> <td>x 1 = <u>  0  </u></td> </tr> <tr> <td>FACW species</td> <td><u>  0  </u></td> <td>x 2 = <u>  0  </u></td> </tr> <tr> <td>FAC species</td> <td><u>  25  </u></td> <td>x 3 = <u>  75  </u></td> </tr> <tr> <td>FACU species</td> <td><u>  30  </u></td> <td>x 4 = <u>  120  </u></td> </tr> <tr> <td>UPL species</td> <td><u>  45  </u></td> <td>x 5 = <u>  225  </u></td> </tr> <tr> <td>Column Totals:</td> <td><u>  100  </u> (A)</td> <td><u>  420  </u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>  4.2  </u>	Total % Cover of:		Multiply by:	OBL species	<u>  0  </u>	x 1 = <u>  0  </u>	FACW species	<u>  0  </u>	x 2 = <u>  0  </u>	FAC species	<u>  25  </u>	x 3 = <u>  75  </u>	FACU species	<u>  30  </u>	x 4 = <u>  120  </u>	UPL species	<u>  45  </u>	x 5 = <u>  225  </u>	Column Totals:	<u>  100  </u> (A)	<u>  420  </u> (B)
Total % Cover of:		Multiply by:																							
OBL species	<u>  0  </u>	x 1 = <u>  0  </u>																							
FACW species	<u>  0  </u>	x 2 = <u>  0  </u>																							
FAC species	<u>  25  </u>	x 3 = <u>  75  </u>																							
FACU species	<u>  30  </u>	x 4 = <u>  120  </u>																							
UPL species	<u>  45  </u>	x 5 = <u>  225  </u>																							
Column Totals:	<u>  100  </u> (A)	<u>  420  </u> (B)																							
<b>Sapling/Shrub Stratum</b> (Plot size: _____)																									
1. _____	_____	_____	_____																						
2. _____	_____	_____	_____																						
3. _____	_____	_____	_____																						
4. _____	_____	_____	_____																						
5. _____	_____	_____	_____																						
= Total Cover																									
<b>Herb Stratum</b> (Plot size: _____)																									
1. <u>Glebionis coronaria</u>	<u>  45  </u>	<u>  Y  </u>	<u>  UPL  </u>	<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																					
2. <u>Bromus hordeaceus</u>	<u>  29  </u>	<u>  Y  </u>	<u>  FACU  </u>																						
3. <u>Festuca perennis</u>	<u>  25  </u>	<u>  Y  </u>	<u>  FAC  </u>																						
4. <u>Salsola tragus</u>	<u>  1  </u>	<u>  N  </u>	<u>  FACU  </u>																						
5. _____	_____	_____	_____																						
6. _____	_____	_____	_____																						
7. _____	_____	_____	_____																						
8. _____	_____	_____	_____																						
= Total Cover																									
<b>Woody Vine Stratum</b> (Plot size: _____)																									
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>  x  </u>																					
2. _____	_____	_____	_____																						
= Total Cover																									
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____																									
Remarks: The sample area does not support a predominance of hydrophytic vegetation																									



## SOIL

Sampling Point: 12-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐
- 1 cm Muck (A9) (LRR C)
- 
- ☐
- 2 cm Muck (A10) (LRR B)
- 
- ☐
- Reduced Vertic (F18)
- 
- ☐
- Red Parent Material (TF2)
- 
- ☐
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**Type: shovel refusalDepth (inches): 8Hydric Soil Present? Yes ☐ No ☒

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐
- Water Marks (B1) (Riverine)
- 
- ☐
- Sediment Deposits (B2) (Riverine)
- 
- ☐
- Drift Deposits (B3) (Riverine)
- 
- ☐
- Drainage Patterns (B10)
- 
- ☐
- Dry-Season Water Table (C2)
- 
- ☐
- Thin Muck Surface (C7)
- 
- ☐
- Crayfish Burrows (C8)
- 
- ☐
- Saturation Visible on Aerial Imagery (C9)
- 
- ☐
- Shallow Aquitard (D3)
- 
- ☐
- FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/28/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 20-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55889 Long: -117.01927 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #20 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Glebionis coronaria</u>		55	Y	UPL	<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Bromus rubens</u>		30	Y	UPL	
3. <u>Erodium botrys</u>		5	N	FACU	
4. <u>Salsola tragus</u>		<1	N	FACU	
5. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					91 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>9</u> % Cover of Biotic Crust <u>      </u>					

Remarks:



## SOIL

Sampling Point: 20-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  X  </u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>  X  </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
Applicant/Owner: Tri Point Homes State: CA Sampling Point: 22-UPL  
Investigator(s): Andrew Smisek, Chris Thomson Section, Township, Range: Section 31, T18S R01W  
Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 2  
Subregion (LRR): C Lat: 32.55901 Long: -117.01868 Datum: NAD83  
Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
Are Vegetation x, Soil x, or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

Hydrophytic Vegetation Present?      Yes _____ No <u>  x  </u> Hydric Soil Present?                      Yes _____ No <u>  x  </u> Wetland Hydrology Present?            Yes _____ No <u>  x  </u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>  x  </u>
Remarks: Paired sample point for feature #22.	

<u>Tree Stratum</u>	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
		_____ = Total Cover		
<u>Sapling/Shrub Stratum</u>	(Plot size: _____ )			
1.	<i>Artemisia californica</i>	25	Y	UPL
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
		25 = Total Cover		
<u>Herb Stratum</u>	(Plot size: _____ )			
1.	<i>Glebionis coronaria</i>	20	Y	UPL
2.	<i>Festuca myuros</i>	20	Y	FACU
3.	<i>Bromus diandrus</i>	30	Y	FACU
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
		70 = Total Cover		
<u>Woody Vine Stratum</u>	(Plot size: _____ )			
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
		95 = Total Cover		
% Bare Ground in Herb Stratum	_____ 5 _____	% Cover of Biotic Crust	_____	

Remarks: The sample area does not support a predominance of hydrophytic vegetation.

### Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ 0 \_\_\_\_\_ (A)

Total Number of Dominant Species Across All Strata: \_\_\_\_\_ 4 \_\_\_\_\_ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ 0 \_\_\_\_\_ (A/B)

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### Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	_____ 0 _____	x 1 = _____ 0 _____
FACW species	_____ 0 _____	x 2 = _____ 0 _____
FAC species	_____ 0 _____	x 3 = _____ 0 _____
FACU species	_____ 50 _____	x 4 = _____ 200 _____
UPL species	_____ 45 _____	x 5 = _____ 225 _____
Column Totals:	_____ 95 _____ (A)	_____ 425 _____ (B)

Prevalence Index = B/A = 4.5

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### Hydrophytic Vegetation Indicators:

\_\_\_\_ Dominance Test is >50%

\_\_\_\_ Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) \_\_\_\_\_

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

---

### Hydrophytic Vegetation Present?

Yes \_\_\_\_\_ No \_\_\_\_\_ x \_\_\_\_\_



## SOIL

Sampling Point: 22-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



Project/Site: <u>Southwest Village Specific Plan Project</u>		City/County: <u>San Diego</u>		Sampling Date: <u>6/27/23</u>	
Applicant/Owner: <u>Tri Point Homes</u>		State: <u>CA</u>		Sampling Point: <u>23-UPL</u>	
Investigator(s): <u>Andrew Smisek</u>		Section, Township, Range: <u>Section 31, T18S R01W</u>			
Landform (hillslope, terrace, etc.): <u>mesa or berm</u>		Local relief (concave, convex, none): <u>convex</u>		Slope (%): <u>5</u>	
Subregion (LRR): <u>C</u>		Lat: <u>32.55901</u>		Long: <u>-117.01868</u>	
Datum: <u>NAD83</u>					
Soil Map Unit Name: <u>Huerhuero loam, 2-9% slopes</u>		NW1 classification: <u>none</u>			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>x</u> No <u>      </u> (If no, explain in Remarks.)					
Are Vegetation <u>  x  </u> , Soil <u>  x  </u> , or Hydrology <u>      </u> significantly disturbed?			Are "Normal Circumstances" present? Yes <u>  x  </u> No <u>      </u>		
Are Vegetation <u>      </u> , Soil <u>      </u> , or Hydrology <u>      </u> naturally problematic?			(If needed, explain any answers in Remarks.)		

Hydrophytic Vegetation Present?      Yes _____ No <u>  x  </u> Hydric Soil Present?                      Yes _____ No <u>  x  </u> Wetland Hydrology Present?            Yes _____ No <u>  x  </u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>  x  </u>
Remarks: Paired sample point for feature #23.	

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: _____ 1 _____ (A) Total Number of Dominant Species Across All Strata: _____ 3 _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ 33.3% _____ (A/B)
2. _____					
3. _____					
4. _____					
				= Total Cover	
Sapling/Shrub Stratum (Plot size: _____ )					<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ 0 _____ x 1 = _____ 0 _____ FACW species _____ 0 _____ x 2 = _____ 0 _____ FAC species _____ 10 _____ x 3 = _____ 30 _____ FACU species _____ 20 _____ x 4 = _____ 80 _____ UPL species _____ 20 _____ x 5 = _____ 100 _____ Column Totals: _____ 50 _____ (A) _____ 210 _____ (B)  Prevalence Index = B/A = <u>4.2</u>
1. <i>Isocoma menziesii</i>		5	Y	FAC	
2. _____					
3. _____					
4. _____					
		5	= Total Cover		
Herb Stratum (Plot size: _____ )					<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <i>Glebionis coronaria</i>		20	Y	UPL	
2. <i>Bromus hordeaceus</i>		15	Y	FACU	
3. <i>Lysimachia arvensis</i>		5	N	FAC	
4. <i>Bromus diandrus</i>		5	N	FACU	
5. _____					
6. _____					
7. _____					
8. _____					
		45	= Total Cover		
Woody Vine Stratum (Plot size: _____ )					<b>Hydrophytic Vegetation Present?</b> Yes _____ No _____ x _____
1. _____					
2. _____					
		50	= Total Cover		
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 23-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		
0-11	10YR 4/2	100				sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>11</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 25-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55889 Long: -117.01872 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #25.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>22</u> x 4 = <u>88</u> UPL species <u>45</u> x 5 = <u>225</u> Column Totals: <u>69</u> (A) <u>319</u> (B) Prevalence Index = B/A = <u>4.6</u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>      </u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Mesembryanthemum nodiflorum</u> 2 N FACU 2. <u>Glebionis coronaria</u> 5 N UPL 3. <u>Bromus hordeaceus</u> 20 Y FACU 4. <u>Bromus rubens</u> 40 Y UPL 5. <u>Lysimachia arvensis</u> 2 N FAC 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> 69 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>      </u> 2. <u>      </u> 69 = Total Cover				
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				
<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>				

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point:

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	x
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**
- ☐ Sediment Deposits (B2) **(Riverine)**
- ☐ Drift Deposits (B3) **(Riverine)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 26-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55879 Long: -117.01864 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation   x  , Soil   x  , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   x   No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>  x  </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>  x  </u>
Hydric Soil Present? Yes <u>      </u> No <u>  x  </u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>  x  </u>	
Remarks: Paired sample point for feature #26.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
= Total Cover				
Sapling/Shrub Stratum	(Plot size: <u>                    </u> )			
1.				
2.				
3.				
4.				
5.				
= Total Cover				
Herb Stratum	(Plot size: <u>                    </u> )			
1.	<i>Mesembryanthemum nodiflorum</i>	25	Y	FACU
2.	<i>Glebionis coronaria</i>	10	Y	UPL
3.	<i>Bromus hordeaceus</i>	5	N	FACU
4.	<i>Erodium cicutarium</i>	5	N	FACU
5.				
6.				
7.				
8.				
45 = Total Cover				
Woody Vine Stratum	(Plot size: <u>                    </u> )			
1.				
2.				
45 = Total Cover				
% Bare Ground in Herb Stratum <u>                    </u>		% Cover of Biotic Crust <u>                    </u>		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC:   0   (A)  
 Total Number of Dominant Species Across All Strata:   2   (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC:   0   (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of:            Multiply by:             
 OBL species   0   x 1 =   0    
 FACW species   0   x 2 =   0    
 FAC species   0   x 3 =   0    
 FACU species   35   x 4 =   140    
 UPL species   10   x 5 =   50    
 Column Totals:   45   (A)   190   (B)  
 Prevalence Index = B/A =   4.2  

**Hydrophytic Vegetation Indicators:**  
       Dominance Test is >50%  
       Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes        No   x

Remarks: The sample area does not support a predominance of hydrophytic vegetation



## SOIL

Sampling Point: 26-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		
0-5	10YR 4/3	100					sandy loam

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>5</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 27-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55885 Long: -117.01876 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil X, or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #27 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Spergularia bocconi</u>		<1	N	FACW	<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Mesembryanthemum nodiflorum</u>		<1	N	FACU	
3. <u>Bromus rubens</u>		<1	N	UPL	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>99+</u> % Cover of Biotic Crust <u>      </u>					Yes <u>      </u> No <u>X</u>
Remarks: Vegetation is less than 1 percent cover.					



## SOIL

Sampling Point: 27-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/2	100					sandy clay	
3-12	10YR 3/2	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>12</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 28-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55877 Long: -117.01873 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #28.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
Sapling/Shrub Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		
Herb Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		
Woody Vine Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		
% Bare Ground in Herb Stratum <u>      </u>	% Cover of Biotic Crust <u>      </u>			

Remarks: this area lacks vegetation cover



## SOIL

Sampling Point: 28-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		
0-4	10YR 4/3	100					sandy loam

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>4</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 31-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55862 Long: -117.01892 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #31 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>Acmispon glaber</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Glebionis coronaria</u>		<u>22</u>	<u>Y</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Avena sp.</u>		<u>30</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Bromus rubens</u>		<u>3</u>	<u>N</u>	<u>UPL</u>	
4. <u>Mesembryanthemum nodiflorum</u>		<u>10</u>	<u>N</u>	<u>FACU</u>	
5. <u>Spergularia bocconi</u>		<u>10</u>	<u>N</u>	<u>FACW</u>	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>25</u>		% Cover of Biotic Crust <u>      </u>			

Remarks:



## SOIL

Sampling Point: 31-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/3	100					clay loam	compacted
3-18	10YR 3/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  X  </u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>  X  </u>
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 32-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55858 Long: -117.01890 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #32 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Glebionis coronaria</u>		60	Y	UPL	
2. <u>Mesembryanthemum nodiflorum</u>		2	N	FACU	
3. <u>Spergularia bocconi</u>		10	N	FACW	
4. <u>Bromus rubens</u>		3	N	UPL	
5. <u>Festuca myuros</u>		<1	N	FACU	
6. <u>Erodium botrys</u>		1	N	FACU	
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>24</u>		% Cover of Biotic Crust <u>      </u>			

Remarks:



## SOIL

Sampling Point: 32-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		
0-12	10YR 4/3	100					sandy loam

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>12</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 33-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55856 Long: -117.01885 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to fature #33 wetland point. This sampled area is not a wetland					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>Acmispon glaber</u>		1	N	UPL	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Glebionis coronaria</u>		25	Y	UPL	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Mesembryanthemum nodiflorum</u>		10	N	FACU	
3. <u>Bromus rubens</u>		20	Y	UPL	
4. <u>Bromus hordeaceus</u>		20	Y	FACU	
5. <u>Salsola tragus</u>		1	N	FACU	
6. <u>Festuca perennis</u>		9	N	FAC	
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>15</u> % Cover of Biotic Crust <u>      </u>					
Remarks:					



## SOIL

Sampling Point: 33-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		
0-18	10YR 4/3	100					clay

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  X  </u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?      Yes _____ No _____ Depth (inches): _____ Saturation Present?        Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>  X  </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 34-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55867 Long: -117.01898 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #34 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Bromus hordeaceus</u>		55	Y	FACU	
2. <u>Glebionis coronaria</u>		5	N	UPL	
3. <u>Bromus rubens</u>		20	Y	UPL	
4. <u>Festuca myuros</u>		5	N	FACU	
5. <u>Erodium botrys</u>		5	N	FACU	
6. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
7. <u>      </u>				FACU	
8. <u>      </u>					
				91 = Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
				= Total Cover	
% Bare Ground in Herb Stratum <u>9</u>		% Cover of Biotic Crust <u>      </u>			

Remarks:



## SOIL

Sampling Point: 34-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/3	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>8</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/3/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 35-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55821 Long: -117.01857 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #35.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>35</u> x 4 = <u>140</u> UPL species <u>20</u> x 5 = <u>100</u> Column Totals: <u>55</u> (A) <u>240</u> (B) Prevalence Index = B/A = <u>4.4</u>
Sapling/Shrub Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		
Herb Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Mesembryanthemum nodiflorum</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Glebionis coronaria</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Bromus hordeaceus</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
4. <u>Bromus rubens</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>55</u> = Total Cover		
Woody Vine Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>55</u> = Total Cover		
% Bare Ground in Herb Stratum <u>      </u>	% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 35-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/> x
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/> x
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/3/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 45-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55795 Long: -117.01868 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation   x  , Soil   x  , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   x   No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>  x  </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>  x  </u>
Hydric Soil Present? Yes <u>      </u> No <u>  x  </u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>  x  </u>	
Remarks: Paired sample point for feature #45.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>                  </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>  0  </u> (A) Total Number of Dominant Species Across All Strata: <u>  2  </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>  0  </u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>                  </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>                  </u> Multiply by: <u>                  </u> OBL species <u>                  </u> x 1 = <u>                  </u> FACW species <u>                  </u> x 2 = <u>                  </u> FAC species <u>                  </u> x 3 = <u>                  </u> FACU species <u>                  </u> x 4 = <u>                  </u> UPL species <u>  100  </u> x 5 = <u>  500  </u> Column Totals: <u>  100  </u> (A) <u>  500  </u> (B) Prevalence Index = B/A = <u>  5  </u>
1.					
2.					
3.					
4.					
		= Total Cover			
Herb Stratum	(Plot size: <u>                  </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Avena barbata</u>	<u>80</u>	<u>Y</u>	<u>UPL</u>	
2.	<u>Glebionis coronaria</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>	
3.					
4.					
		= Total Cover			
Woody Vine Stratum	(Plot size: <u>                  </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>  x  </u>
1.					
2.					
3.					
4.					
		= Total Cover			
% Bare Ground in Herb Stratum <u>  0  </u>		% Cover of Biotic Crust <u>                  </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 45-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 3/3	100					loamy sand	
12-18	10YR 4/4	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>x</u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>x</u>
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 49-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): Convex Slope (%): 1  
 Subregion (LRR): C Lat: 32.554682 Long: -117.025015 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 % slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #49 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Centaurea melitensis</u>		5	N	UPL	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Deinandra fasciculata</u>		<1	N	FACU	
3. <u>Bromus hordeaceus</u>		10	N	FACU	
4. <u>Glebionis coronaria</u>		5	N	UPL	
5. <u>Bromus rubens</u>		5	N	UPL	
6. <u>Hypochaeris glabra</u>		5	N	UPL	
7. <u>Avena sp.</u>		60	Y	UPL	
8. <u>Erodium botrys</u>		10	N	FACU	
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			
Remarks:					



## SOIL

Sampling Point: 49-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-7	10YR 3/3	100					sandy clay	no redox
7-18	10YR 4/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  X  </u>
Remarks:	

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>  X  </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/16/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 54-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55521 Long: -117.02489 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation   x  , Soil   x  , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   x   No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>  x  </u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>  x  </u> Wetland Hydrology Present? Yes <u>      </u> No <u>  x  </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>  x  </u>
Remarks: Paired sample point for feature #54.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
					= Total Cover
<u>Sapling/Shrub Stratum</u>	(Plot size: _____ )				
1.					
2.					
3.					
4.					
5.					
					= Total Cover
<u>Herb Stratum</u>	(Plot size: _____ )				
1.	<u>Erodium botrys</u>	30	Y	FACU	
2.	<u>Glabionis coronaria</u>	15	Y	UPL	
3.	<u>Rumex crispus</u>	1	N	FAC	
4.	<u>Bromus hordeaceus</u>	3	N	FACU	
5.	<u>Festuca perennis</u>	20	Y	FAC	
6.	<u>Avena sp</u>	<1	N	UPL	
7.	<u>Hedypnois rhagadioloides</u>	<1	N	NI	
8.					
					71 = Total Cover
<u>Woody Vine Stratum</u>	(Plot size: _____ )				
1.					
2.					
					70 = Total Cover
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____					

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC:   1   (A)  
 Total Number of Dominant Species Across All Strata:   3   (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC:   33.3%   (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>  0  </u>	x 1 = <u>  0  </u>
FACW species <u>  0  </u>	x 2 = <u>  0  </u>
FAC species <u>  21  </u>	x 3 = <u>  60  </u>
FACU species <u>  33  </u>	x 4 = <u>  132  </u>
UPL species <u>  16  </u>	x 5 = <u>  80  </u>
Column Totals: <u>  70  </u> (A)	<u>  212  </u> (B)

Prevalence Index = B/A =   3

**Hydrophytic Vegetation Indicators:**  
       Dominance Test is >50%  
  x   Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes   x   No

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 54-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 3/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>6</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/10/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 55-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 3  
 Subregion (LRR): C Lat: 32.55510 Long: -117.02494 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #55.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>81</u> x 5 = <u>405</u> Column Totals: <u>91</u> (A) <u>435</u> (B) Prevalence Index = B/A = <u>4.8</u>
Sapling/Shrub Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				
Herb Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Glebiana coronaria</u>	<u>60</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Avena sp.</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Festuca perennis</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
4. <u>Bromus diandrus</u>	<u>&lt;1</u>	<u>N</u>	<u>UPL</u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				
Woody Vine Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>90</u> = Total Cover				
% Bare Ground in Herb Stratum <u>10</u>	% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 55-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>  x  </u>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> ) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> ) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> ) <input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> ) <input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> ) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?      Yes _____ No _____ Depth (inches): _____ Saturation Present?        Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>  x  </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/10/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 56-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55507 Long: -117.02478 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil x, or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #56.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>22</u> x 4 = <u>88</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>29</u> (A) <u>117</u> (B) Prevalence Index = B/A = <u>4.0</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Deinandra fasciculata</u>		2	N	FACU	
2. <u>Mesembryanthemum nodiflorum</u>		10	Y	FACU	
3. <u>Glebionis coronaria</u>		5	N	UPL	
4. <u>Erodium botrys</u>		10	Y	FACU	
5. <u>Spergularia bocconi</u>		2	N	FACW	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
				29 = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. <u>      </u>					
2. <u>      </u>					
				29 = Total Cover	
% Bare Ground in Herb Stratum <u>71</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 56-UPL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5) (**LRR C**)  
☐ 1 cm Muck (A9) (**LRR D**)  
☐ Depleted Below Dark Surface (A11)  
☐ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: shovel refusal - compacted

Depth (inches): 6

Hydric Soil Present?	Yes	No	x
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) **(Nonriverine)**
- ☐ Sediment Deposits (B2) **(Nonriverine)**
- ☐ Drift Deposits (B3) **(Nonriverine)**
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)

☐ Salt Crust (B11)  
☐ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Tilled Soils (C6)  
☐ Thin Muck Surface (C7)  
☐ Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**
- ☐ Sediment Deposits (B2) **(Riverine)**
- ☐ Drift Deposits (B3) **(Riverine)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/10/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 57-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55505 Long: -117.02491 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #57.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>15</u> x 4 = <u>60</u> UPL species <u>35</u> x 5 = <u>175</u> Column Totals: <u>50</u> (A) <u>235</u> (B) Prevalence Index = B/A = <u>4.7</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.					
2.					
3.					
4.					
5.					
				= Total Cover	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1.	<u>Glebiana coronaria</u>	<u>35</u>	<u>Y</u>	<u>UPL</u>	
2.	<u>Erodium botrys</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
3.	<u>Deinandra fasciculata</u>	<u>4</u>	<u>N</u>	<u>FACU</u>	
4.	<u>Matricaria discoidea</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>	
5.					
6.					
7.					
8.					
				<u>50</u> = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					
2.					
				<u>50</u> = Total Cover	
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 57-UPL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5) (**LRR C**)  
☐ 1 cm Muck (A9) (**LRR D**)  
☐ Depleted Below Dark Surface (A11)  
☐ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?	Yes	No	x
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) **(Nonriverine)**
- ☐ Sediment Deposits (B2) **(Nonriverine)**
- ☐ Drift Deposits (B3) **(Nonriverine)**
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)

☐ Salt Crust (B11)  
☐ Biotic Crust (B12)  
☐ Aquatic Invertebrates (B13)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres along Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Tilled Soils (C6)  
☐ Thin Muck Surface (C7)  
☐ Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/16/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 58-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%):           
 Subregion (LRR): C Lat: 32.55522 Long: -117.02482 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No          (If no, explain in Remarks.)  
 Are Vegetation         , Soil         , or Hydrology          significantly disturbed? Are "Normal Circumstances" present? Yes x No           
 Are Vegetation         , Soil         , or Hydrology          naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>        </u> Hydric Soil Present? Yes <u>        </u> No <u>x</u> Wetland Hydrology Present? Yes <u>        </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>        </u> No <u>x</u>
Remarks: Paired sample point for feature #58.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <u>        </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>        </u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>        </u>					
3. <u>        </u>					
4. <u>        </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b>	Plot size: <u>        </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>        </u> Multiply by: <u>        </u> OBL species <u>        </u> x 1 = <u>        </u> FACW species <u>        </u> x 2 = <u>        </u> FAC species <u>        </u> x 3 = <u>        </u> FACU species <u>        </u> x 4 = <u>        </u> UPL species <u>        </u> x 5 = <u>        </u> Column Totals: <u>        </u> (A) <u>        </u> (B) Prevalence Index = B/A = <u>        </u>
1. <u>        </u>					
2. <u>        </u>					
3. <u>        </u>					
4. <u>        </u>					
= Total Cover					
<b>Herb Stratum</b>	Plot size: <u>        </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>        </u> Dominance Test is >50% <u>        </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>        </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>        </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Erodium botrys</u>		5	N	FACU	
2. <u>Festuca perennis</u>		60	Y	FAC	
3. <u>Hordeum marinum</u>		15	N	FAC	
4. <u>Rumex crispus</u>		1	N	FAC	
5. <u>        </u>					
6. <u>        </u>					
7. <u>        </u>					
8. <u>        </u>					
81 = Total Cover					
<b>Woody Vine Stratum</b>	Plot size: <u>        </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>        </u>
1. <u>        </u>					
2. <u>        </u>					
81 = Total Cover					
% Bare Ground in Herb Stratum <u>        </u> % Cover of Biotic Crust <u>        </u>					

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 58-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  x  </u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>  x  </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/10/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 68-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 2  
 Subregion (LRR): C Lat: 32.55462 Long: -117.02363 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil x, or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #68.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>38</u> x 4 = <u>152</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>48</u> (A) <u>192</u> (B) Prevalence Index = B/A = <u>4</u>
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u>)</b>				
1. <u>Bromus rubens</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
3. <u>Deinandra fasciculata</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
4. <u>Erodium botrys</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Mesembryanthemum nodiflorum</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
6. <u>Acmispon micranthus</u>	<u>3</u>	<u>N</u>	<u>NI</u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			<u>51</u> = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			<u>51</u> = Total Cover	
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>		

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 68-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					clay loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/> x
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/> x
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/10/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 70-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55453 Long: -117.02329 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil x, or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #70.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>26</u> x 4 = <u>104</u> UPL species <u>15</u> x 5 = <u>75</u> Column Totals: <u>51</u> (A) <u>209</u> (B) Prevalence Index = B/A = <u>4.1</u>
1.					
2.					
3.					
4.					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<i>Mesembrianthemum nodiflorum</i>	5	N	FACU	
2.	<i>Erodium botrys</i>	15	Y	FACU	
3.	<i>Deinandra fasciculata</i>	1	N	FACU	
4.	<i>Festuca perennis</i>	10	N	FAC	
5.	<i>Hordeum murinum</i>	5	N	FACU	
6.	<i>Bromus rubens</i>	15	Y	UPL	
7.					
8.					
		51	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1.					
2.					
		51	= Total Cover		
% Bare Ground in Herb Stratum <u>49</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 70-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					sandy clay	no redox, compacted

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                         | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                  | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                 | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) <b>(LRR C)</b> | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) <b>(LRR D)</b>         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)     | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)              | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)              |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) **(LRR C)**  
☐ 2 cm Muck (A10) **(LRR B)**  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                          | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                       | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                             | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b> | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                    | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                   | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**  
☐ Sediment Deposits (B2) **(Riverine)**  
☐ Drift Deposits (B3) **(Riverine)**  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/16/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 76-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55523 Long: -117.02340 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #76.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Hordeum marinum</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	
2. <u>Festuca perennis</u>	<u>60</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Avena sp.</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Erodium botrys</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>      </u>
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			= Total Cover	<b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>      </u>
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			= Total Cover	
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 76-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>x</u>
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?      Yes _____ No _____ Depth (inches): _____ Saturation Present?        Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>x</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 78-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55885 Long: -117.01889 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #78.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>25</u> x 4 = <u>100</u> UPL species <u>42</u> x 5 = <u>210</u> Column Totals: <u>67</u> (A) <u>310</u> (B) Prevalence Index = B/A = <u>4.6</u>
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				
1.					
2.					
3.					
4.					
5.					
				= Total Cover	
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<i>Glebionis coronaria</i>	40	Y	UPL	
2.	<i>Mesembryanthemum nodiflorum</i>	20	Y	FACU	
3.	<i>Bromus hordeaceus</i>	5	N	FACU	
4.	<i>Bromus rubens</i>	2	N	UPL	
5.					
6.					
7.					
8.					
				67 = Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1.					
2.					
3.					
4.					
				67 = Total Cover	
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 78-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/> x
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/> x
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 4/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 79-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55848 Long: -117.01888 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Paired sample point for feature #79. Upland sample point paired to 79-W. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>Acmispon glaber</u>		<1	N	UPL	
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Avena sp.</u>		30	Y	UPL	
2. <u>Glebionis coronaria</u>		31	Y	UPL	
3. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
4. <u>Bromus rubens</u>		22	Y	UPL	
5. <u>Spergularia bocconi</u>		2	N	FACW	
6. <u>Bromus hordeaceus</u>		5	N	FACU	
7. <u>Erodium botrys</u>		3	N	FACU	
8. <u>      </u>					
94					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>5</u>		% Cover of Biotic Crust <u>      </u>			

Remarks:



## SOIL

Sampling Point: 79-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <input checked="" type="checkbox"/> X
Depth (inches): _____	

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes _____ No _____ Depth (inches): _____	Yes _____ No <input checked="" type="checkbox"/> X
Water Table Present?	Yes _____ No _____ Depth (inches): _____	
Saturation Present?	Yes _____ No _____ Depth (inches): _____	
(includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



Project/Site: Southwest Village Specific Plan Project		City/County: San Diego		Sampling Date: 6/27/23	
Applicant/Owner: Tri Point Homes		State: CA		Sampling Point: 83-UPL	
Investigator(s): Andrew Smisek		Section, Township, Range: Section 31, T18S R01W			
Landform (hillslope, terrace, etc.): mesa-disturbed		Local relief (concave, convex, none): none		Slope (%): 0	
Subregion (LRR): C		Lat: 32.55894		Long: -117.01901	
				Datum: NAD83	
Soil Map Unit Name: Huerhuero loam, 2-9% slopes		NWI classification: none			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>x</u> No <u>    </u> (If no, explain in Remarks.)					
Are Vegetation <u>  x  </u> , Soil <u>    </u> , or Hydrology <u>    </u> significantly disturbed?			Are "Normal Circumstances" present? Yes <u>  x  </u> No <u>    </u>		
Are Vegetation <u>    </u> , Soil <u>    </u> , or Hydrology <u>    </u> naturally problematic?			(If needed, explain any answers in Remarks.)		

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>x</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: Paired sample point for feature #83.		

Tree Stratum	Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status																															
1. _____					<b>Number of Dominant Species That Are OBL, FACW, or FAC:</b> _____ 0 (A) <b>Total Number of Dominant Species Across All Strata:</b> _____ 1 (B) <b>Percent of Dominant Species That Are OBL, FACW, or FAC:</b> _____ 0 (A/B)																														
2. _____																																			
3. _____																																			
4. _____																																			
				= Total Cover																															
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					<b>Prevalence Index worksheet:</b> <div style="display: flex; justify-content: space-between;"> <span>Total % Cover of:</span> <span>Multiply by:</span> </div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">OBL species</td> <td style="width: 10%; text-align: center;">0</td> <td style="width: 10%;">x 1 =</td> <td style="width: 10%; text-align: center;">0</td> <td style="width: 40%;"></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">0</td> <td>x 3 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">11</td> <td>x 4 =</td> <td style="text-align: center;">44</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">70</td> <td>x 5 =</td> <td style="text-align: center;">350</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">81</td> <td>(A)</td> <td style="text-align: center;">394</td> <td>(B)</td> </tr> </table> <p style="text-align: center; margin-top: 10px;">Prevalence Index = B/A = <u>4.9</u></p>	OBL species	0	x 1 =	0		FACW species	0	x 2 =	0		FAC species	0	x 3 =	0		FACU species	11	x 4 =	44		UPL species	70	x 5 =	350		Column Totals:	81	(A)	394	(B)
OBL species	0	x 1 =	0																																
FACW species	0	x 2 =	0																																
FAC species	0	x 3 =	0																																
FACU species	11	x 4 =	44																																
UPL species	70	x 5 =	350																																
Column Totals:	81	(A)	394	(B)																															
1. _____																																			
2. _____																																			
3. _____																																			
4. _____																																			
				= Total Cover																															
<b>Herb Stratum</b> (Plot size: _____ )					<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																														
1. <i>Glebionis coronaria</i>		70	Y	UPL																															
2. <i>Bromus hordeaceus</i>		10	N	FACU																															
3. <i>Salsola tragus</i>		1	N	FACU																															
4. _____																																			
5. _____																																			
6. _____																																			
7. _____																																			
8. _____																																			
				81 = Total Cover																															
<b>Woody Vine Stratum</b> (Plot size: _____ )																																			
1. _____																																			
2. _____																																			
				81 = Total Cover																															
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____																																	

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 83-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		
0-18	10YR 4/3	100					sandy clay

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 87-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55892 Long: -117.01880 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil X, or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: Paired sample point for feature #87.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Tree Stratum (Plot size: <u>      </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>none</u></td><td></td><td></td><td></td></tr> <tr><td>2. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>3. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>4. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sapling/Shrub Stratum (Plot size: <u>      </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>none</u></td><td></td><td></td><td></td></tr> <tr><td>2. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>3. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>4. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>5. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Herb Stratum (Plot size: <u>      </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Spergularia bocconi</u></td><td style="text-align: center;">20</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACW</td></tr> <tr><td>2. <u>Mesembryanthemum nodiflorum</u></td><td style="text-align: center;">10</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>3. <u>Glebionis coronaria</u></td><td style="text-align: center;">5</td><td style="text-align: center;">N</td><td style="text-align: center;">UPL</td></tr> <tr><td>4. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>5. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>6. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>7. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>8. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: right;">35 = Total Cover</td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Woody Vine Stratum (Plot size: <u>      </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>none</u></td><td></td><td></td><td></td></tr> <tr><td>2. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: right;">35 = Total Cover</td></tr> </tbody> </table> <p>% Bare Ground in Herb Stratum <u>65</u> % Cover of Biotic Crust <u>      </u></p>	Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	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Remarks: The sample area supports a prevalence of hydrophytic vegetation.



## SOIL

Sampling Point: 87-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>4</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/3/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 103-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55870 Long: -117.01922 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #103 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
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4. <u>      </u>					
					= Total Cover
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Glebionis coronaria</u>		35	Y	UPL	
2. <u>Bromus rubens</u>		10	N	UPL	
3. <u>Bromus hordeaceus</u>		15	N	FACU	
4. <u>Erodium botrys</u>		20	Y	FACU	
5. <u>Salsola tragus</u>		<1	N	FACU	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b>
1. <u>none</u>					
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>20</u>		% Cover of Biotic Crust <u>      </u>			

Remarks:



## SOIL

Sampling Point: 103-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/3/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 104-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55859 Long: -117.01916 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Paired sample point for feature #104. Upland sample point paired to 104-W. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Glebionis coronaria</u>		17	N	UPL	
2. <u>Avena sp.</u>		45	Y	UPL	
3. <u>Festuca perennis</u>		30	Y	FAC	
4. <u>Bromus hordeaceus</u>		1	N	FACU	
5. <u>Bromus rubens</u>		7	N	UPL	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
		100	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
		= Total Cover			
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			
Remarks:					



## SOIL

Sampling Point: 104-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 106-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.558362 Long: -117.018722 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Within the road bed. Upland sample point paired to 106-W. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
				= Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
				= Total Cover	
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			
Remarks:					



## SOIL

Sampling Point: 106-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/3	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
Remarks:	

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?    Yes _____ No _____ Depth (inches): _____ Saturation Present?    Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 110-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): berm on mesa Local relief (concave, convex, none): convex Slope (%): 5  
 Subregion (LRR): C Lat: 32.55890 Long: -117.01866 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation   x  , Soil   x  , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   x   No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>  x  </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>  x  </u>
Hydric Soil Present? Yes <u>      </u> No <u>  x  </u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>  x  </u>	
Remarks: Paired sample point for feature #110.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>                  </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>  0  </u> (A) Total Number of Dominant Species Across All Strata: <u>  2  </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>  0  </u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>                  </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>          </u> Multiply by: <u>          </u> OBL species <u>  0  </u> x 1 = <u>  0  </u> FACW species <u>  0  </u> x 2 = <u>  0  </u> FAC species <u>  3  </u> x 3 = <u>  9  </u> FACU species <u> 20  </u> x 4 = <u> 100 </u> UPL species <u>  35 </u> x 5 = <u> 175 </u> Column Totals: <u>  58 </u> (A) <u> 284 </u> (B) Prevalence Index = B/A = <u> 4.9 </u>
1.					
2.					
3.					
4.					
5.					
		= Total Cover			
Herb Stratum	(Plot size: <u>                  </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Glebionis coronaria</u>	<u>35</u>	<u>Y</u>	<u>UPL</u>	
2.	<u>Bromus diandrus</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
3.	<u>Bromus hordeaceus</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
4.	<u>Lysimachia arvensis</u>	<u>3</u>	<u>N</u>	<u>FAC</u>	
5.					
6.					
7.					
8.					
		<u>58</u>	= Total Cover		
Woody Vine Stratum	(Plot size: <u>                  </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>  x  </u>
1.					
2.					
		<u>58</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>                  </u>		% Cover of Biotic Crust <u>                  </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 110-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 5/1	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/> x
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Remarks: Mottled with browns and blue/gray soil colors; no hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/> x
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/10/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 111-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): convex Slope (%): 0  
 Subregion (LRR): C Lat: 32.55438 Long: -117.02392 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #111.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="3" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="3" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><i>Bromus hordeaceus</i></td><td style="text-align: center;">15</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>2.</td><td><i>Stipa pulchra</i></td><td style="text-align: center;">5</td><td style="text-align: center;">N</td><td style="text-align: center;">UPL</td></tr> <tr><td>3.</td><td><i>Deinandra fasciculata</i></td><td style="text-align: center;">35</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>4.</td><td><i>Festuca perennis</i></td><td style="text-align: center;">4</td><td style="text-align: center;">N</td><td style="text-align: center;">FAC</td></tr> <tr><td>5.</td><td><i>Erodium botrys</i></td><td style="text-align: center;">15</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>6.</td><td></td><td></td><td></td><td></td></tr> <tr><td>7.</td><td></td><td></td><td></td><td></td></tr> <tr><td>8.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td style="text-align: center;">74</td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="3" style="text-align: right;">= Total Cover</td></tr> </table> <p>% Bare Ground in Herb Stratum <u>74</u> % Cover of Biotic Crust <u>                    </u></p>	Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	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Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 111-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					clay loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/10/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 113-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 2  
 Subregion (LRR): C Lat: 32.55440 Long: -117.02325 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil x, or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #113.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1.					
2.					
3.					
4.					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>3</u> x 3 = <u>9</u> FACU species <u>36</u> x 4 = <u>144</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>41</u> (A) <u>163</u> (B) Prevalence Index = B/A = <u>4.0</u>
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				
1.					
2.					
3.					
4.					
5.					
				= Total Cover	
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<i>Mesembryanthemum nodiflorum</i>	15	Y	FACU	
2.	<i>Deinandra fasciculata</i>	5	N	FACU	
3.	<i>Lamarckia aurea</i>	1	N	FACU	
4.	<i>Festuca perennis</i>	3	N	FAC	
5.	<i>Bromus rubens</i>	2	N	UPL	
6.	<i>Erodium botrys</i>	15	Y	FACU	
7.					
8.					
				41 = Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1.					
2.					
				41 = Total Cover	
% Bare Ground in Herb Stratum <u>59</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 113-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/16/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 114-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55522 Long: -117.02468 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes. NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #114.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1.					
2.					
3.					
4.					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.					
2.					
3.					<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4.					
5.					
6.					
7.					
8.					<b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>      </u>
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1.	<i>Festuca perennis</i>	65	Y	FAC	
2.	<i>Hordeum marinum</i>	10	N	FAC	
3.	<i>Erodium botrys</i>	1	N	FACU	
4.					<b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>      </u>
5.					
6.					
7.					
8.					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>      </u>
2.					
= Total Cover					
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					
% Bare Ground in Woody Vine Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 114-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR C</b> )
<input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR B</b> )
<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if present):**
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_
Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )
<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> FAC-Neutral Test (D5)

**Field Observations:**
 Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)
Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 124-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55859 Long: -117.01864 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #124.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>40</u> x 4 = <u>160</u> UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>70</u> (A) <u>250</u> (B) Prevalence Index = B/A = <u>3.6</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Mesembryanthemum nodiflorum</u>	10	N	FACU		
2. <u>Spergularia bocconi</u>	20	Y	FACW		
3. <u>Bromus hordeaceus</u>	30	Y	FACU		
4. <u>Glebionis coronaria</u>	10	N	UPL		
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
				70 = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. <u>      </u>					
2. <u>      </u>					
				70 = Total Cover	
% Bare Ground in Herb Stratum <u>30</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 124-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 4/2	100					clay loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>8</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: August 8, 2023  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 131-UPL  
 Investigator(s): Andrew Smisek, Danelle Gadia Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Mesa, within dirt road Local relief (concave, convex, none): None Slope (%): 1  
 Subregion (LRR): C Lat: 32.558066 Long: -117.019170 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to 131-W. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. <u>Croton setiger</u>		10	N	UPL		
2. <u>Avena sp.</u>		50	Y	UPL		
3. <u>Glebionis coronaria</u>		30	Y	UPL		
4. <u>Festuca myuros</u>		4	N	FACU		
5. <u>Bromus rubens</u>		5	N	UPL		
6. <u>Bromus diandrus</u>		1	N	UPL		
7. <u>      </u>						
8. <u>      </u>						
						100 = Total Cover
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b>	
1. <u>none</u>						Yes <u>      </u>
2. <u>      </u>						No <u>X</u>
					= Total Cover	
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>				

Remarks:



## SOIL

Sampling Point: 131-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
18	10YR 3/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                         | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                  | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                 | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) <b>(LRR C)</b> | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) <b>(LRR D)</b>         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)     | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)              | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)              |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) **(LRR C)**  
☐ 2 cm Muck (A10) **(LRR B)**  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                          | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                       | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                             | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b> | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                    | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                   | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**  
☐ Sediment Deposits (B2) **(Riverine)**  
☐ Drift Deposits (B3) **(Riverine)**  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 150-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55910 Long: -117.01868 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Paired sample point for feature #150. Upland sample point paired to 150-W. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>55</u> x 4 = <u>220</u> UPL species <u>15</u> x 5 = <u>75</u> Column Totals: <u>80</u> (A) <u>310</u> (B) Prevalence Index = B/A = <u>3.9</u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Bromus hordeaceus</u>		<u>50</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Glebionis coronaria</u>		<u>15</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Lysimachia arvensis</u>		<u>5</u>	<u>N</u>	<u>FAC</u>	
4. <u>Erodium botrys</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 150-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 4/2	100					loamy sand	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: shovel refusal

Depth (inches): 10

Hydric Soil Present? Yes ☐ No ☒

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_

Water Table Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_

Saturation Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 165-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55847 Long: -117.01846 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #165.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
					= Total Cover
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>      </u> )				
1.					
2.					
3.					
4.					
5.					
					= Total Cover
<u>Herb Stratum</u>	(Plot size: <u>      </u> )				
1.	<i>Festuca perennis</i>	85	Y	FAC	
2.	<i>Erodium botrys</i>	2	N	FACU	
3.	<i>Glebionis coronaria</i>	2	N	UPL	
4.	<i>Bromus diandrus</i>	5	N	FACU	
5.					
6.					
7.					
8.					
					94 = Total Cover
<u>Woody Vine Stratum</u>	(Plot size: <u>      </u> )				
1.					
2.					
					94 = Total Cover
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 1 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of:        Multiply by:         
 OBL species        x 1 =         
 FACW species        x 2 =         
 FAC species        x 3 =         
 FACU species        x 4 =         
 UPL species        x 5 =         
 Column Totals:        (A)        (B)  
 Prevalence Index = B/A =

**Hydrophytic Vegetation Indicators:**  
x Dominance Test is >50%  
       Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes x No

Remarks: The sample area supports of a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 165-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No   x  

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No   x  

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators.







## SOIL

Sampling Point: 166-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	7.5YR 4/3	100					loam	
12-18	10YR 3/2	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                         | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                  | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                 | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) <b>(LRR C)</b> | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) <b>(LRR D)</b>         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)     | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)              | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)              |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) **(LRR C)**  
☐ 2 cm Muck (A10) **(LRR B)**  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                          | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                       | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                             | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b> | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                    | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                   | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**  
☐ Sediment Deposits (B2) **(Riverine)**  
☐ Drift Deposits (B3) **(Riverine)**  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/20/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 169-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55857 Long: -117.01937 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>x</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>x</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>x</u>			
Remarks: Paired sample point for feature #169.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1.					
2.					
3.					
4.					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>36</u> x 3 = <u>108</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u>50</u> x 5 = <u>250</u> Column Totals: <u>87</u> (A) <u>362</u> (B) Prevalence Index = B/A = <u>4.2</u>
2.					
3.					
4.					
5.					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1.	<i>Hordeum marinum</i>	30	Y	FAC	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	<i>Rumex crispus</i>	1	N	FAC	
3.	<i>Festuca perennis</i>	5	N	FAC	
4.	<i>Avena sp.</i>	50	Y	UPL	
5.	<i>Medicago polymorpha</i>	1	N	FACU	
6.					
7.					
8.					
					87 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
2.					
					87 = Total Cover
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 169-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>10</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 171-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55866 Long: -117.01888 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #171.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				
1.					
2.					
3.					
4.					
5.					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				
1.	<i>Bromus hordeaceus</i>	30	Y	FACU	
2.	<i>Glebionis coronaria</i>	10	N	UPL	
3.	<i>Mesembryanthemum nodiflorum</i>	10	N	FACU	
4.	<i>Bromus rubens</i>	2	N	UPL	
5.					
6.					
7.					
8.					
		52	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				
1.					
2.					
		52	= Total Cover		
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC:        (A)  
 Total Number of Dominant Species Across All Strata:        (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC:        (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>      </u>	x 1 = <u>      </u>
FACW species <u>      </u>	x 2 = <u>      </u>
FAC species <u>      </u>	x 3 = <u>      </u>
FACU species <u>40</u>	x 4 = <u>160</u>
UPL species <u>12</u>	x 5 = <u>60</u>
Column Totals: <u>52</u> (A)	<u>220</u> (B)

Prevalence Index = B/A = 4.2

**Hydrophytic Vegetation Indicators:**  
       Dominance Test is >50%  
       Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes        No x

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 171-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: August 8, 2023  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 173-UPL  
 Investigator(s): Andrew Smisek, Danelle Gadia Section, Township, Range: Section 31, T18S, R01W  
 Landform (hillslope, terrace, etc.): Mesa Local relief (concave, convex, none): None Slope (%): 0  
 Subregion (LRR): C Lat: 32.55824 Long: -117.01892 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: Upland sample point paired to 173-W. This sampled area is not a wetland.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
2. <u>                    </u>				
3. <u>                    </u>				
4. <u>                    </u>				
			= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>                    </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>                    </u> Multiply by: <u>                    </u> OBL species <u>                    </u> x 1 = <u>                    </u> FACW species <u>                    </u> x 2 = <u>                    </u> FAC species <u>                    </u> x 3 = <u>                    </u> FACU species <u>                    </u> x 4 = <u>                    </u> UPL species <u>                    </u> x 5 = <u>                    </u> Column Totals: <u>                    </u> (A) <u>                    </u> (B) Prevalence Index = B/A = <u>                    </u>
1. <u>none</u>				
2. <u>                    </u>				
3. <u>                    </u>				
4. <u>                    </u>				
5. <u>                    </u>				
			= Total Cover	
Herb Stratum (Plot size: <u>                    </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Avena sp.</u>	50	Y	UPL	
2. <u>Distichlis spicata</u>	5	N	FAC	
3. <u>Festuca perennis</u>	30	Y	FAC	
4. <u>Bromus rubens</u>	10	N	UPL	
5. <u>Croton setiger</u>	5	N	UPL	
6. <u>                    </u>				
7. <u>                    </u>				
8. <u>                    </u>				
			100 = Total Cover	
Woody Vine Stratum (Plot size: <u>                    </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>				
2. <u>                    </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>                    </u> % Cover of Biotic Crust <u>                    </u>				

Remarks:



## SOIL

Sampling Point: 173-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
12	10YR 3/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>12</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 198-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Mesa Local relief (concave, convex, none): Convex Slope (%): 2  
 Subregion (LRR): C Lat: 32.55205 Long: -117.02218 Datum: NAD83  
 Soil Map Unit Name: Olivehain cobbly loam, 9-30 % slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #198wetland point. This sample area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Deinandra fasciculata</u>		<1	N	FACU	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Hordeum marinum</u>		<1	N	FAC	
3. <u>Bromus hordeaceus</u>		20	Y	FACU	
4. <u>Mesembryanthemum nodiflorum</u>		1	N	FACU	
5. <u>Avena sp.</u>		40	Y	UPL	
6. <u>Centaurea melitensis</u>		14	N	UPL	
7. <u>Bromus rubens</u>		15	N	UPL	
8. <u>      </u>					
				90 = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
				= Total Cover	
% Bare Ground in Herb Stratum <u>10</u>		% Cover of Biotic Crust <u>      </u>			
Remarks:					



## SOIL

Sampling Point: 198-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/3	100					sandy clay	no redox
8-14	7.5YR 3.3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>14</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/20/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 201-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55337 Long: -117.02119 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>x</u> No <u>      </u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #201.	

## VEGETATION – Use scientific names of plants.

<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><u>Tree Stratum</u> (Plot size: <u>      </u> )</td> <td style="width: 10%; text-align: center;">Absolute % Cover</td> <td style="width: 10%; text-align: center;">Dominant Species?</td> <td style="width: 10%; text-align: center;">Indicator Status</td> </tr> <tr><td>1. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>2. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>3. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>4. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">= Total Cover</td></tr> </table> <table border="0" style="width: 100%;"> <tr> <td><u>Sapling/Shrub Stratum</u> (Plot size: <u>      </u> )</td> <td></td> <td></td> <td></td> </tr> <tr><td>1. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>2. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>3. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>4. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>5. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">= Total Cover</td></tr> </table> <table border="0" style="width: 100%;"> <tr> <td><u>Herb Stratum</u> (Plot size: <u>      </u> )</td> <td></td> <td></td> <td></td> </tr> <tr><td>1. <u>Avena sp</u></td><td style="text-align: center;">60</td><td style="text-align: center;">Y</td><td style="text-align: center;">UPL</td></tr> <tr><td>2. <u>Medicago polymorpha</u></td><td style="text-align: center;">1</td><td style="text-align: center;">N</td><td style="text-align: center;">FACU</td></tr> <tr><td>3. <u>Hordeum marinum</u></td><td style="text-align: center;">10</td><td style="text-align: center;">N</td><td style="text-align: center;">FAC</td></tr> <tr><td>4. <u>Festuca perennis</u></td><td style="text-align: center;">10</td><td style="text-align: center;">N</td><td style="text-align: center;">FAC</td></tr> <tr><td>5. <u>Bromus diandrus</u></td><td style="text-align: center;">15</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>6. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>7. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>8. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">96 = Total Cover</td></tr> </table> <table border="0" style="width: 100%;"> <tr> <td><u>Woody Vine Stratum</u> (Plot size: <u>      </u> )</td> <td></td> <td></td> <td></td> </tr> <tr><td>1. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td>2. <u>      </u></td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">96 = Total Cover</td></tr> </table> <div style="margin-top: 10px;">         % Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u> </div>	<u>Tree Stratum</u> (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1. <u>      </u>				2. <u>      </u>				3. <u>      </u>				4. <u>      </u>				= Total Cover				<u>Sapling/Shrub Stratum</u> (Plot size: <u>      </u> )				1. <u>      </u>				2. <u>      </u>				3. <u>      </u>				4. <u>      </u>				5. <u>      </u>				= Total Cover				<u>Herb Stratum</u> (Plot size: <u>      </u> )				1. <u>Avena sp</u>	60	Y	UPL	2. <u>Medicago polymorpha</u>	1	N	FACU	3. <u>Hordeum marinum</u>	10	N	FAC	4. <u>Festuca perennis</u>	10	N	FAC	5. <u>Bromus diandrus</u>	15	Y	FACU	6. <u>      </u>				7. <u>      </u>				8. <u>      </u>				96 = Total Cover				<u>Woody Vine Stratum</u> (Plot size: <u>      </u> )				1. <u>      </u>				2. <u>      </u>				96 = Total Cover				<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Dominance Test worksheet:</b>          Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)          Total Number of Dominant Species Across All Strata: <u>2</u> (B)          Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)       </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Prevalence Index worksheet:</b>  <table border="0" style="width: 100%;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 10%;"></td> <td style="width: 10%;">Multiply by:</td> <td style="width: 40%;"></td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">20</td> <td>x 3 =</td> <td style="text-align: center;">60</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">16</td> <td>x 4 =</td> <td style="text-align: center;">64</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">60</td> <td>x 5 =</td> <td style="text-align: center;">300</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">96 (A)</td> <td></td> <td style="text-align: center;">424 (B)</td> </tr> </table> <p style="text-align: center;">Prevalence Index = B/A = <u>4.4</u></p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Hydrophytic Vegetation Indicators:</b>  <u>      </u> Dominance Test is &gt;50%  <u>      </u> Prevalence Index is ≤3.0<sup>1</sup>  <u>      </u> Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  <u>      </u> Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)       </div> <div style="border: 1px solid black; padding: 5px;"> <p><sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u> </div>	Total % Cover of:		Multiply by:		OBL species	0	x 1 =	0	FACW species	0	x 2 =	0	FAC species	20	x 3 =	60	FACU species	16	x 4 =	64	UPL species	60	x 5 =	300	Column Totals:	96 (A)		424 (B)
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Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 201-UPL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	x	No
----------------------	-----	---	----

Remarks: Depleted matrix indicator observed.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
-----------------------------------	-----	----	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.







## SOIL

Sampling Point: 202-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 4/2	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: 5

Depth (inches): shovel refusal

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.







## SOIL

Sampling Point: 203/283-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/3	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>6</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: August 8, 2023  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 204-UPL  
 Investigator(s): Andrew Smisek, Danelle Gadia Section, Township, Range: Section 31, T18S, R01W  
 Landform (hillslope, terrace, etc.): Mesa Local relief (concave, convex, none): Convex Slope (%): 3  
 Subregion (LRR): C Lat: 32.55436 Long: -117.01852 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #204 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Avena sp.</u>		50	Y	UPL	
2. <u>Deinandra fasciculata</u>		2	N	FACU	
3. <u>Festuca perennis</u>		30	Y	FAC	
4. <u>Bromus diandrus</u>		2	N	UPL	
5. <u>Hordeum marinum</u>		15	N	FAC	
6. <u>Atriplex semibaccata</u>		1	N	FAC	
7. <u>      </u>					
8. <u>      </u>					
				100 = Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b>
1. <u>none</u>					
2. <u>      </u>					
				= Total Cover	
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			Yes <u>      </u> No <u>X</u>

Remarks:



## SOIL

Sampling Point: 204-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
12	10YR 3/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: Shovel Refusal

Depth (inches): 12

Hydric Soil Present? Yes ☐ No ☒

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_

Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_

Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/26/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 206-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55044 Long: -117.01784 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #206.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1.					
2.					
3.					
4.					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>44</u> x 3 = <u>132</u> FACU species <u>6</u> x 4 = <u>24</u> UPL species <u>50</u> x 5 = <u>250</u> Column Totals: <u>100</u> (A) <u>406</u> (B) Prevalence Index = B/A = <u>4.06</u>
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				
1.					
2.					
3.					
4.					
5.					
				= Total Cover	
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<i>Festuca perennis</i>	40	Y	FAC	
2.	<i>Avena sp</i>	50	Y	UPL	
3.	<i>Bromus diandrus</i>	5	N	FACU	
4.	<i>Hordeum sp.</i>	4	N	FAC	
5.	<i>Deinandra paniculata</i>	1	N	FACU	
6.					
7.					
8.					
				= Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1.					
2.					
				= Total Cover	
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 206-UPL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	x
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 207-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Mesa Local relief (concave, convex, none): slightly convex Slope (%): 2  
 Subregion (LRR): C Lat: 32.54995 Long: -117.01824 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #207 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Deinandra fasciculata</u>		8	N	FACU	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Bromus rubens</u>		25	Y	UPL	
3. <u>Bromus hordeaceus</u>		5	N	FACU	
4. <u>Lamarckia aurea</u>		<1	N	FACU	
5. <u>Centaurea melitensis</u>		1	N	UPL	
6. <u>Amsinkia menziesii</u>		<1	N	UPL	
7. <u>Festuca perennis</u>		20	Y	FAC	
8. <u>Erodium botrys</u>		15	Y	FACU	
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>26</u>		% Cover of Biotic Crust <u>      </u>			

Remarks:



## SOIL

Sampling Point: 207-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	7.5YR 3/3	100					sandy clay loam	no redox
4-18	7.5YR 3/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
Remarks:	

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 208-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.54987 Long: -117.01732 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #208 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Avena sp.</u>		48	Y	UPL	
2. <u>Hordeum marinum</u>		3	N	FAC	
3. <u>Festuca perennis</u>		49	Y	FAC	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
		100	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
1. <u>none</u>					
2. <u>      </u>					
		= Total Cover			
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			

Remarks:



## SOIL

Sampling Point: 208-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/3	100					clay loam	A lot of roots and biomass
4-18	10YR 4/2	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
Remarks:	

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 210/196-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 1  
 Subregion (LRR): C Lat: 32.55309 Long: -117.02286 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #210 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>Simmondsia chinensis</u>		10	N	UPL	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>Adolphia californica</u>		3	N	UPL	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Avena sp.</u>		50	Y	UPL	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Deinandra fasciculata</u>		<1	N	FACU	
3. <u>Bromus rubens</u>		15	N	UPL	
4. <u>Festuca perennis</u>		20	Y	FAC	
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>2</u>		% Cover of Biotic Crust <u>      </u>			

Remarks:



## SOIL

Sampling Point: 210/196-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/3	100					silty clay	no redox
8-16	10YR 3/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____    No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>X</u>
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:







## SOIL

Sampling Point: 211-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: August 8, 2023  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 212-UPL  
 Investigator(s): Andrew Smisek, Danelle Gadia Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Slump Mesa Local relief (concave, convex, none): Convex Slope (%): 3  
 Subregion (LRR): C Lat: 32.55906 Long: -117.01814 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30-50 % slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #212 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>Artemisia californica</u>		60	Y	UPL	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>Rhus integrifolia</u>		10	N	UPL	
3. <u>Simmondsia chinensis</u>		7	N	UPL	
4. <u>Eriogonum fasciculatum</u>		<1	N	UPL	
5. <u>Baccharis sarothroides</u>		1	N	FACU	
78 = Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca myuros</u>		15	Y	FACU	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Bromus rubens</u>		<1	N	UPL	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
15 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>5</u>		% Cover of Biotic Crust <u>15</u>			

Remarks:



## SOIL

Sampling Point: 212-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
10	10YR 3/3	100						no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                         | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                  | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                 | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) <b>(LRR C)</b> | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) <b>(LRR D)</b>         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)     | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)              | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)              |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) **(LRR C)**
- ☐ 2 cm Muck (A10) **(LRR B)**
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                          | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                       | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                             | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b> | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                    | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                   | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**
- ☐ Sediment Deposits (B2) **(Riverine)**
- ☐ Drift Deposits (B3) **(Riverine)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 224-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55861 Long: -117.01775 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #224.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			= Total Cover	
<b>Sapling/Shrub Stratum (Plot size: <u>      </u> )</b>				
1. <u>Artemisia californica</u>	15	Y	UPL	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species <u>30</u> x 5 = <u>150</u> Column Totals: <u>65</u> (A) <u>285</u> (B) Prevalence Index = B/A = <u>4.4</u>
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			15 = Total Cover	
<b>Herb Stratum (Plot size: <u>      </u> )</b>				
1. <u>Foeniculum vulgare</u>	15	Y	UPL	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Bromus hordeaceus</u>	10	N	FACU	
3. <u>Bromus diandrus</u>	20	Y	FACU	
4. <u>Festuca perennis</u>	5	N	FAC	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			50 = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u> )</b>				
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
			65 = Total Cover	
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>		

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 224-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-14	10YR 4/4	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                         | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                  | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                 | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) <b>(LRR C)</b> | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) <b>(LRR D)</b>         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)     | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)              | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)              |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) **(LRR C)**  
☐ 2 cm Muck (A10) **(LRR B)**  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**Type: shovel refusal (cobble)Depth (inches): 14Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                          | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                       | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                             | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b> | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                    | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                   | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**  
☐ Sediment Deposits (B2) **(Riverine)**  
☐ Drift Deposits (B3) **(Riverine)**  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 227-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55425 Long: -117.01433 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: Upland sample point paired to 227-W. This sampled area is not a wetland.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum (Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. <u>none</u></td><td></td><td></td><td></td></tr> <tr><td>2. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td>3. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td>4. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum (Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. <u>none</u></td><td></td><td></td><td></td></tr> <tr><td>2. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td>3. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td>4. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td>5. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum (Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. <u>Festuca perennis</u></td><td style="text-align: center;">90</td><td style="text-align: center;">Y</td><td style="text-align: center;">FAC</td></tr> <tr><td>2. <u>Bromus rubens</u></td><td style="text-align: center;">3</td><td style="text-align: center;">N</td><td style="text-align: center;">UPL</td></tr> <tr><td>3. <u>Atriplex semibaccata</u></td><td style="text-align: center;">5</td><td style="text-align: center;">N</td><td style="text-align: center;">FAC</td></tr> <tr><td>4. <u>Medicago polymorpha</u></td><td style="text-align: center;">1</td><td style="text-align: center;">N</td><td style="text-align: center;">FACU</td></tr> <tr><td>5. <u>Hordeum marinum</u></td><td style="text-align: center;">1</td><td style="text-align: center;">N</td><td style="text-align: center;">FAC</td></tr> <tr><td>6. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td>7. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td>8. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: right;">100 = Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum (Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. <u>none</u></td><td></td><td></td><td></td></tr> <tr><td>2. <u>                    </u></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </table> <p>% Bare Ground in Herb Stratum <u>                    </u> % Cover of Biotic Crust <u>                    </u></p>	Tree Stratum (Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1. <u>none</u>				2. <u>                    </u>				3. <u>                    </u>				4. <u>                    </u>						= Total Cover		Sapling/Shrub Stratum (Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1. <u>none</u>				2. <u>                    </u>				3. <u>                    </u>				4. <u>                    </u>				5. <u>                    </u>						= Total Cover		Herb Stratum (Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1. <u>Festuca perennis</u>	90	Y	FAC	2. <u>Bromus rubens</u>	3	N	UPL	3. <u>Atriplex semibaccata</u>	5	N	FAC	4. <u>Medicago polymorpha</u>	1	N	FACU	5. <u>Hordeum marinum</u>	1	N	FAC	6. <u>                    </u>				7. <u>                    </u>				8. <u>                    </u>						100 = Total Cover		Woody Vine Stratum (Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	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Remarks: this upland area supports hydrophytic vegetation



## SOIL

Sampling Point: 227-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 3/2	100					sandy loam	no redox
1-2	10YR 4/6	100					sandy	multiple colored grains
2-18	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
--	---

Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/8/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 228-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55428 Long: -117.01560 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #228.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Medicago polymorpha</u>		15	N	FACU	
2. <u>Festuca perennis</u>		70	Y	FAC	
3. <u>Hordeum marinum</u>		15	N	FAC	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
				100	= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					
				100	= Total Cover
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: Sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 228-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

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<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/> x
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/> x
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/8/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 235-UPL  
 Investigator(s): Andrew Smisek, JR Sundberg, Chris Thomson Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 1  
 Subregion (LRR): C Lat: 32.55213 Long: -117.01479 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #235.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>Artemisia californica</u> 15 <u>      </u> NI 2. <u>      </u> <u>      </u> <u>      </u> 3. <u>      </u> <u>      </u> <u>      </u> 4. <u>      </u> <u>      </u> <u>      </u> 5. <u>      </u> <u>      </u> <u>      </u> <u>      </u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Festuca perennis</u> 80 Y FAC 2. <u>Bromus diandrus</u> 3 N FACU 3. <u>Hordeum marinum</u> 2 N FACU 4. <u>      </u> <u>      </u> <u>      </u> 5. <u>      </u> <u>      </u> <u>      </u> 6. <u>      </u> <u>      </u> <u>      </u> 7. <u>      </u> <u>      </u> <u>      </u> 8. <u>      </u> <u>      </u> <u>      </u> <u>      </u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>      </u> <u>      </u> <u>      </u> 2. <u>      </u> <u>      </u> <u>      </u> <u>85</u> = Total Cover				
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 235-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	7.5YR 3/2	100					loamy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/8/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 237-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 1  
 Subregion (LRR): C Lat: 32.55187 Long: -117.01533 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>x</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>x</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>x</u>			
Remarks: Paired sample point for feature #237.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1.					
2.					
3.					
4.					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.	<i>Festuca perennis</i>	60	Y	FAC	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>65</u> x 3 = <u>195</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>30</u> x 5 = <u>150</u> Column Totals: <u>95</u> (A) <u>345</u> (B) Prevalence Index = B/A = <u>3.6</u>
2.	<i>Avena fatua</i>	30	Y	UPL	
3.	<i>Hordeum marinum</i>	5	N	FAC	
4.					
5.					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.					
3.					
4.					
5.					
6.					
7.					
8.					
					95 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
2.					
					95 = Total Cover
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 237-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/2	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal - rock</u> Depth (inches): <u>8</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: August 8, 2023  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 242-UPL  
 Investigator(s): Andrew Smisek, Danelle Gadia Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Slump Mesa Local relief (concave, convex, none): Concave Slope (%): 20  
 Subregion (LRR): C Lat: 32.54997 Long: -117.01949 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30 % slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present? Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	
Remarks: Upland sample point paired to feature #242 wetland point. This sample point is a wetland.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: % <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>63</u> x 3 = <u>189</u> FACU species <u>12</u> x 4 = <u>48</u> UPL species <u>11</u> x 5 = <u>55</u> Column Totals: <u>86</u> (A) <u>292</u> (B) Prevalence Index = B/A = <u>3.39</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Bromus rubens</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
2. <u>Festuca perennis</u>	<u>63</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Mesembryanthemum nodiflorum</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
4. <u>Salsola tragus</u>	<u>&lt;1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Hordeum marinum</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	
6. <u>Avena sp.</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
7. <u>      </u>				
8. <u>      </u>				
			<u>86</u> = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
			= Total Cover	
% Bare Ground in Herb Stratum <u>14</u> % Cover of Biotic Crust <u>      </u>				

Remarks: this upland area supports hydrophytic vegetation



## SOIL

Sampling Point: 242-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
6	5YR 4/4	100						

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: Shovel Refusal  
 Depth (inches): 6

Hydric Soil Present? Yes ☐ No ☒

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: August 8, 2023  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 243-UPL  
 Investigator(s): Andrew Smisek, Danelle Gadia Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Slump Mesa Local relief (concave, convex, none): Convex Slope (%): 20  
 Subregion (LRR): LRR-C Lat: 32.55071 Long: -117.02072 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30 % slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #243 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
1. <u>Simmondsia chenensis</u>		2	N	UPL	
2. <u>Eriogonum fasciculatum</u>		20	Y	UPL	
3. <u>Ambrosia chenopodiifolia</u>		25	Y	UPL	
4. <u>      </u>					
5. <u>      </u>					
		47	= Total Cover		
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Avena sp.</u>		1	N	UPL	
2. <u>Festuca perennis</u>		10	N	FAC	
3. <u>Bromus rubens</u>		30	Y	UPL	
4. <u>Lamarckia aurea</u>		<1	N	FACU	
5. <u>Deinandra fasciculata</u>		<1	N	FACU	
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
		41	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b>
1. <u>none</u>					
2. <u>      </u>					
		= Total Cover			
% Bare Ground in Herb Stratum <u>10</u>		% Cover of Biotic Crust <u>2</u>			

Remarks:



## SOIL

Sampling Point: 243-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
8	10YR 3/2	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>8</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: August 8, 2023  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 244-UPL  
 Investigator(s): Andrew Smisek, Danelle Gadia Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Slump Mesa Local relief (concave, convex, none): Concave Slope (%): 2  
 Subregion (LRR): LRR-C Lat: 32.55119 Long: -117.02115 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 2-9 % slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #244 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>Simmondsia chinensis</u>		15	Y	UPL	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>Encelia californica</u>		15	Y	UPL	
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					30 = Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Glebionis coronaria</u>		25	Y	UPL	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Avena sp.</u>		15	Y	UPL	
3. <u>Deinandra fasciculata</u>		5	N	FACU	
4. <u>Bromus rubens</u>		10	N	UPL	
5. <u>Bromus diandrus</u>		<1	N	UPL	
6. <u>Festuca perennis</u>		5	N	FAC	
7. <u>Lamarckia aurea</u>		<1	N	FACU	
8. <u>      </u>					
					60 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust <u>      </u>					
Remarks:					



## SOIL

Sampling Point: 244-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
18	10YR 3/2	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
Remarks:	

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	







## SOIL

Sampling Point: 252-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 3/3						sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: shovel refusal  
 Depth (inches): 10

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 254-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): slightly convex Slope (%): 3  
 Subregion (LRR): C Lat: 32.55813 Long: -117.02846 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #254 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>Eriogonum fasciculatum</u>		<1	N	UPL	
2. <u>Artemesia californica</u>		<1	N	UPL	
3. <u>      </u>					
4. <u>      </u>					<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Deinandra fasciculata</u>		60	Y	FACU	
2. <u>Erodium botrys</u>		10	N	FACU	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
3. <u>Lepidium sp.</u>		<1	N	UPL	
4. <u>Bromus rubens</u>		12	N	UPL	
5. <u>Amsinckia menziesii</u>		<1	N	UPL	
6. <u>      </u>					
7. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
8. <u>      </u>					
82 = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
= Total Cover					
% Bare Ground in Herb Stratum <u>18</u> % Cover of Biotic Crust <u>      </u>					
Remarks:					



## SOIL

Sampling Point: 254-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	7.5YR 3/3	100					sandy clay loam	no redox
4-18	10YR 3/2	100						no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
Remarks:	

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?       Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?        Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: August 8, 2023  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 259-UPL  
 Investigator(s): Andrew Smisek, Danelle Gadia Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Mesa Local relief (concave, convex, none): None Slope (%): 0  
 Subregion (LRR): LRR-C Lat: 32.55199 Long: -117.01839 Datum: NAD 83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #259 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)	
1. <u>none</u>						
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
					= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>	
2. <u>      </u>						
3. <u>      </u>						
4. <u>      </u>						
5. <u>      </u>						
					= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )						
1. <u>Avena sp.</u>		50	Y	UPL	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Bromus diandrus</u>		10	N	UPL		
3. <u>Festuca perennis</u>		25	Y	FAC		
4. <u>Hordeum marinum</u>		5	N	FAC		
5. <u>Distichlis spicata</u>		10	N	FAC		
6. <u>      </u>						
7. <u>      </u>						
8. <u>      </u>						
						100 = Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )						
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>	
2. <u>      </u>						
					= Total Cover	
% Bare Ground in Herb Stratum <u>      </u>		% Cover of Biotic Crust <u>      </u>				

Remarks:



## SOIL

Sampling Point: 259-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
10	10YR 4/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>10</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 264-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55256 Long: -117.01838 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation X, Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: Paired sample point for feature #264.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: left;">(Plot size: <u>          </u>)</th> <th style="text-align: left;">Absolute % Cover</th> <th style="text-align: left;">Dominant Species?</th> <th style="text-align: left;">Indicator Status</th> </tr> <tr><td>1.</td><td><u>none</u></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="5" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: left;">(Plot size: <u>          </u>)</th> <th style="text-align: left;">Absolute % Cover</th> <th style="text-align: left;">Dominant Species?</th> <th style="text-align: left;">Indicator Status</th> </tr> <tr><td>1.</td><td><u>none</u></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="5" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: left;">(Plot size: <u>          </u>)</th> <th style="text-align: left;">Absolute % Cover</th> <th style="text-align: left;">Dominant Species?</th> <th style="text-align: left;">Indicator Status</th> </tr> <tr><td>1.</td><td><u>Hordeum murinum</u></td><td><u>60</u></td><td><u>Y</u></td><td><u>FACU</u></td></tr> <tr><td>2.</td><td><u>Avena barbata</u></td><td><u>39</u></td><td><u>Y</u></td><td><u>UPL</u></td></tr> <tr><td>3.</td><td><u>Festuca perennis</u></td><td><u>1</u></td><td><u>N</u></td><td><u>FAC</u></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td>6.</td><td></td><td></td><td></td><td></td></tr> <tr><td>7.</td><td></td><td></td><td></td><td></td></tr> <tr><td>8.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="5" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: left;">(Plot size: <u>          </u>)</th> <th style="text-align: left;">Absolute % Cover</th> <th style="text-align: left;">Dominant Species?</th> <th style="text-align: left;">Indicator Status</th> </tr> <tr><td>1.</td><td><u>none</u></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="5" style="text-align: right;">= Total Cover</td></tr> </table> <p>% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>          </u></p>	Tree Stratum	(Plot size: <u>          </u> )	Absolute % Cover	Dominant Species?	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Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 264-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 3/2						sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/4/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 269-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55376 Long: -117.01848 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point with feature #269.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
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2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
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		<u>      </u> = Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
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<b>Woody Vine Stratum</b> (Plot size: <u>      </u> ) 1. <u>      </u> 2. <u>      </u> <u>100</u> = Total Cover				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>				

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 269-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

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| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/15/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 276-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 2  
 Subregion (LRR): C Lat: 32.55353 Long: -117.02284 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>x</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>x</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>x</u>			
Remarks: Paired sample point with feature #276.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>16</u> x 4 = <u>64</u> UPL species <u>80</u> x 5 = <u>400</u> Column Totals: <u>101</u> (A) <u>479</u> (B) Prevalence Index = B/A = <u>4.7</u>
1.	<i>Peritoma arborea</i>	10	Y	UPL	
2.					
3.					
4.					
5.					
		10	= Total Cover		
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<i>Avena sp</i>	70	Y	UPL	
2.	<i>Bromus diandrus</i>	15	N	FACU	
3.	<i>Festuca perennis</i>	5	N	FAC	
4.	<i>Deinandra fasciculata</i>	<1	N	FACU	
5.					
6.					
7.					
8.					
		91	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1.					
2.					
		101	= Total Cover		
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 276-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-15	10YR 4/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth (inches): <u>15</u>	

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?
Surface Water Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/15/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 277-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55285 Long: -117.018594 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: <u>Paired sample point with feature #277.</u>	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>15</u> x 4 = <u>60</u> UPL species <u>80</u> x 5 = <u>400</u> Column Totals: <u>100</u> (A) <u>475</u> (B) Prevalence Index = B/A = <u>4.8</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Avena sp</u>	<u>80</u>	<u>Y</u>	<u>UPL</u>		
2. <u>Hordeum murinum</u>	<u>15</u>	<u>N</u>	<u>FACU</u>		
3. <u>Festuca perennis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>		
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
				<u>100</u> = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. <u>      </u>					
2. <u>      </u>					
				= Total Cover	
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 277-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/1	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                         | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                  | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                 | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) <b>(LRR C)</b> | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) <b>(LRR D)</b>         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)     | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)              | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)              |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) **(LRR C)**
- ☐ 2 cm Muck (A10) **(LRR B)**
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                          | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                       | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                             | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b> | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                    | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                   | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**
- ☐ Sediment Deposits (B2) **(Riverine)**
- ☐ Drift Deposits (B3) **(Riverine)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

**Wetland Hydrology Present?** Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/15/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 278-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55258 Long: -117.018565 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #278.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>70</u> x 5 = <u>350</u> Column Totals: <u>100</u> (A) <u>460</u> (B) Prevalence Index = B/A = <u>4.6</u>
1.					
2.					
3.					
4.					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Avena sp</u>	<u>70</u>	<u>Y</u>	<u>UPL</u>	
2.	<u>Hordeum murinum</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3.	<u>Festuca perennis</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
4.					
5.					
6.					
7.					
8.					
		100		= Total Cover	
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1.					
2.					
		100		= Total Cover	
% Bare Ground in Herb Stratum <u>0</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 278-UPL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

## Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	x
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

### Wetland Hydrology Indicators:

**Secondary Indicators (2 or more required)**

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego, CA Sampling Date: August 9, 2023  
 Applicant/Owner: Tri Pointe Homes State: CA Sampling Point: 289-UPL  
 Investigator(s): Andrew Smisek, Danelle Gadia Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): Slump Mesa Local relief (concave, convex, none): None Slope (%): 0  
 Subregion (LRR): C Lat: 32.54740 Long: -117.01787 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30 % slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: Upland sample point paired to feature #289 wetland point. This sampled area is not a wetland.	

## VEGETATION – Use scientific names of plants.

<b>Tree Stratum</b> (Plot size: <u>      </u> ) 1. <u>none</u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> <div style="text-align: right;">= Total Cover</div> <b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> ) 1. <u>Malosma laurina</u> 5      N      UPL 2. <u>Artemisia californica</u> 5      N      UPL 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> <div style="text-align: right;">10 = Total Cover</div> <b>Herb Stratum</b> (Plot size: <u>      </u> ) 1. <u>Avena sp.</u> 64      Y      UPL 2. <u>Bromus rubens</u> 15      N      UPL 3. <u>Bromus diandrus</u> 1      N      UPL 4. <u>Glebionis coronaria</u> 5      N      UPL 5. <u>Bromus hordeaceus</u> 5      N      FACU 6. <u>Festuca myuros</u> 5      N      FACU 7. <u>      </u> 8. <u>      </u> <div style="text-align: right;">95 = Total Cover</div> <b>Woody Vine Stratum</b> (Plot size: <u>      </u> ) 1. <u>none</u> 2. <u>      </u> <div style="text-align: right;">= Total Cover</div> % Bare Ground in Herb Stratum <u>5</u> % Cover of Biotic Crust <u>      </u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  <b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B)  Prevalence Index = B/A = <u>      </u>
<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>	

Remarks:



## SOIL

Sampling Point: 289-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
6	10YR 3/2	100					Sandy Loam	No Redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>Shovel Refusal</u> Depth (inches): <u>6</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/21/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 291-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.54860 Long: -117.01673 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loa, 9-30% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #291.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>18</u> x 4 = <u>72</u> UPL species <u>80</u> x 5 = <u>400</u> Column Totals: <u>99</u> (A) <u>475</u> (B) Prevalence Index = B/A = <u>4.8</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> ) 1. <u>Simmondsia chinensis</u> 20 Y UPL 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> = Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> ) 1. <u>Avena sp</u> 60 Y UPL 2. <u>Bromus diandrus</u> 18 N FACU 3. <u>Festuca perennis</u> 1 N FAC 4. <u>      </u> 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> = Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> ) 1. <u>      </u> 2. <u>      </u> = Total Cover					
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 291-UPL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	x
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 296-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55434 Long: -117.02218 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 percent slopes NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #296 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					= Total Cover
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
					= Total Cover
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Mesembryanthemum nodiflorum</u>		40	Y	FACU	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>		25	Y	FAC	
3. <u>Atriplex semibaccata</u>		1	N	FAC	
4. <u>Hordeum marinum</u>		1	N	FAC	
5. <u>Lepidium sp.</u>		<1	N	UPL	
6. <u>Spergularia bocconi</u>		1	N	FACW	
7. <u>Erodium botrys</u>		<1	N	FACU	
8. <u>      </u>					
					= Total Cover
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>      </u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
					= Total Cover
% Bare Ground in Herb Stratum <u>32</u> % Cover of Biotic Crust <u>      </u>					

Remarks:



## SOIL

Sampling Point: 296-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	7.5YR 4/3	100					clay loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>8</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/10/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 299-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55434 Long: -117.02270 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #299.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1.					
2.					
3.					
4.					
				= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.					
2.					
3.					
4.					
5.					
				= Total Cover	<b>Hydrophytic Vegetation Indicators:</b> <u>x</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1.	<i>Festuca perennis</i>	35	Y	FAC	
2.	<i>Hordeum marinum</i>	15	Y	FAC	
3.	<i>Spergularia bocconeii</i>	15	Y	FACW	
4.	<i>Erodium botrys</i>	2	N	FACU	
5.	<i>Avena sp.</i>	2	N	UPL	
6.	<i>Medicago polymorpha</i>	1	N	FACU	
7.					
8.					
				70 = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					
2.					
				= Total Cover	
% Bare Ground in Herb Stratum <u>30</u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 299-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/3	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (LRR C)
- ☐ 2 cm Muck (A10) (LRR B)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**Type: shovel refusal (cobbles)Depth (inches): 6Hydric Soil Present? Yes ☐ No ☒

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (Riverine)
- ☐ Sediment Deposits (B2) (Riverine)
- ☐ Drift Deposits (B3) (Riverine)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**Surface Water Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_Water Table Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_Saturation Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.







## SOIL

Sampling Point: 311-UPL\_\_\_\_\_

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

\_\_\_\_\_ 1 cm Muck (A9) (**LRR C**)  
 \_\_\_\_\_ 2 cm Muck (A10) (**LRR B**)  
 \_\_\_\_\_ Reduced Vertic (F18)  
 \_\_\_\_\_ Red Parent Material (TF2)  
 \_\_\_\_\_ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	x
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

### Wetland Hydrology Indicators:

**Secondary Indicators (2 or more required)**

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

- ☐ Water Marks (B1) **(Riverine)**
- ☐ Sediment Deposits (B2) **(Riverine)**
- ☐ Drift Deposits (B3) **(Riverine)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



Project/Site: Southwest Village Specific Plan Project	City/County: San Diego	Sampling Date: 6/20/23
Applicant/Owner: Tri Point Homes	State: CA	Sampling Point: 331-UPL
Investigator(s): Andrew Smisek	Section, Township, Range: Section 31, T18S R01W	
Landform (hillslope, terrace, etc.): mesa	Local relief (concave, convex, none): none	Slope (%): 0
Subregion (LRR): C	Lat: 32.55239	Long: -117.02324
Datum: NAD83	Soil Map Unit Name: Olivenhain cobbly loam, 9-30% slopes	
NWI classification: none	Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>x</u> No <u>    </u> (If no, explain in Remarks.)	
Are Vegetation <u>    </u> , Soil <u>    </u> , or Hydrology <u>    </u> significantly disturbed?	Are "Normal Circumstances" present? Yes <u>x</u> No <u>    </u>	
Are Vegetation <u>    </u> , Soil <u>    </u> , or Hydrology <u>    </u> naturally problematic?	(If needed, explain any answers in Remarks.)	

Hydrophytic Vegetation Present?      Yes _____ No <u>  x  </u> Hydric Soil Present?                      Yes _____ No <u>  x  </u> Wetland Hydrology Present?            Yes _____ No <u>  x  </u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>  x  </u>
Remarks: Paired sample point for feature #331.	

Tree Stratum		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
			= Total Cover	
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1.	<i>Bromus rubens</i>	10	N	UPL
2.	<i>Deinandra fasciculatum</i>	10	N	FACU
3.	<i>Selaginella cinerascens</i>	60	Y	UPL
4.	<i>Festuca perennis</i>	1	N	FAC
5.	<i>Erodium sp</i>	15	N	FACU
6.	<i>Bromus hordeaceus</i>	1	N	FACU
7.	<i>Lamarckia aurea</i>	1	N	FACU
8.				
		98	= Total Cover	
Woody Vine Stratum				
1.				
2.				
		98	= Total Cover	
% Bare Ground in Herb Stratum		% Cover of Biotic Crust		
Remarks: The sample area does not support a predominance of hydrophytic vegetation.				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 1	x 3 = 3
FACU species 27	x 4 = 108
UPL species 70	x 5 = 350
Column Totals: 98 (A)	461 (B)

Prevalence Index = B/A = 4.7

**Hydrophytic Vegetation Indicators:**

\_\_\_ Dominance Test is >50%

\_\_\_ Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes \_\_\_ No \_\_\_ x \_\_\_



## SOIL

Sampling Point: 331-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: shovel refusal  
 Depth (inches): 8

Hydric Soil Present? Yes ☐ No ☒

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes ☐ No ☐ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: August 17, 2023  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 340-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 3  
 Subregion (LRR): C Lat: 32.55495 Long: -117.02629 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2 to 9 percent slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>X</u>			
Remarks: Upland sample point paired to feature #340 wetland point. This sampled area is not a wetland.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Deinandra fasciculata</u>		60	Y	FACU	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Centaurea melitensis</u>		<1	N	UPL	
3. <u>Erodium botrys</u>		10	N	FACU	
4. <u>Bromus rubens</u>		5	N	UPL	
5. <u>      </u>					
6. <u>      </u>					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>25</u> % Cover of Biotic Crust <u>      </u>					

Remarks:



## SOIL

Sampling Point: 340-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	7.5YR 3/3	100					sandy clay loam	no redox
5-18	7.5YR 2.5/3	100					clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>X</u>
Remarks:	

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?    Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?    Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	







## SOIL

Sampling Point: 369-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 7/5/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 370-UPL  
 Investigator(s): Andrew Smisek, Chris Thomson Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55660 Long: -117.01859 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation   x  , Soil   x  , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   x   No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>  x  </u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>  x  </u> Wetland Hydrology Present? Yes <u>      </u> No <u>  x  </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>  x  </u>
Remarks: Paired sample point for feature #370.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: left;">(Plot size: <u>                  </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: left;">(Plot size: <u>                  </u>)</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: left;">(Plot size: <u>                  </u>)</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1.</td> <td><i>Festuca perennis</i></td> <td style="text-align: center;">75</td> <td style="text-align: center;">Y</td> <td style="text-align: center;">FAC</td> </tr> <tr> <td>2.</td> <td><i>Glebionis coronaria</i></td> <td style="text-align: center;">10</td> <td style="text-align: center;">N</td> <td style="text-align: center;">UPL</td> </tr> <tr> <td>3.</td> <td><i>Mesembryanthemum nodiflorum</i></td> <td style="text-align: center;">10</td> <td style="text-align: center;">N</td> <td style="text-align: center;">FACU</td> </tr> <tr> <td>4.</td> <td><i>Avena barbarata</i></td> <td style="text-align: center;">5</td> <td style="text-align: center;">N</td> <td style="text-align: center;">UPL</td> </tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td>6.</td><td></td><td></td><td></td><td></td></tr> <tr><td>7.</td><td></td><td></td><td></td><td></td></tr> <tr><td>8.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">100</td> <td colspan="2" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: left;">(Plot size: <u>                  </u>)</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">100</td> <td colspan="2" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <p>% Bare Ground in Herb Stratum <u>  0  </u> % Cover of Biotic Crust <u>                  </u></p>	Tree Stratum	(Plot size: <u>                  </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.					3.					4.							= Total Cover			Sapling/Shrub Stratum	(Plot size: <u>                  </u> )				1.					2.					3.					4.					5.							= Total Cover			Herb Stratum	(Plot size: <u>                  </u> )				1.	<i>Festuca perennis</i>	75	Y	FAC	2.	<i>Glebionis coronaria</i>	10	N	UPL	3.	<i>Mesembryanthemum nodiflorum</i>	10	N	FACU	4.	<i>Avena barbarata</i>	5	N	UPL	5.					6.					7.					8.							100	= Total Cover		Woody Vine Stratum	(Plot size: <u>                  </u> )				1.					2.							100	= Total Cover		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"><b>Dominance Test worksheet:</b></td> </tr> <tr> <td>Number of Dominant Species That Are OBL, FACW, or FAC:</td> <td style="text-align: right;"><u>  1  </u> (A)</td> </tr> <tr> <td>Total Number of Dominant Species Across All Strata:</td> <td style="text-align: right;"><u>  1  </u> (B)</td> </tr> <tr> <td>Percent of Dominant Species That Are OBL, FACW, or FAC:</td> <td style="text-align: right;"><u>  1  </u> (A/B)</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"><b>Prevalence Index worksheet:</b></td> </tr> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>                  </u></td> <td>x 1 = <u>                  </u></td> </tr> <tr> <td>FACW species <u>                  </u></td> <td>x 2 = <u>                  </u></td> </tr> <tr> <td>FAC species <u>                  </u></td> <td>x 3 = <u>                  </u></td> </tr> <tr> <td>FACU species <u>                  </u></td> <td>x 4 = <u>                  </u></td> </tr> <tr> <td>UPL species <u>                  </u></td> <td>x 5 = <u>                  </u></td> </tr> <tr> <td>Column Totals: <u>                  </u> (A)</td> <td><u>                  </u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>                  </u></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"><b>Hydrophytic Vegetation Indicators:</b></td> </tr> <tr> <td><u>  x  </u> Dominance Test is &gt;50%</td> <td></td> </tr> <tr> <td><u>      </u> Prevalence Index is ≤3.0<sup>1</sup></td> <td></td> </tr> <tr> <td><u>      </u> Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</td> <td></td> </tr> <tr> <td><u>      </u> Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</td> <td></td> </tr> <tr> <td colspan="2" style="font-size: small;"> <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         </td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><b>Hydrophytic Vegetation Present?</b></td> <td>Yes <u>      </u> No <u>  x  </u></td> </tr> </table>	<b>Dominance Test worksheet:</b>		Number of Dominant Species That Are OBL, FACW, or FAC:	<u>  1  </u> (A)	Total Number of Dominant Species Across All Strata:	<u>  1  </u> (B)	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>  1  </u> (A/B)	<b>Prevalence Index worksheet:</b>		Total % Cover of:	Multiply by:	OBL species <u>                  </u>	x 1 = <u>                  </u>	FACW species <u>                  </u>	x 2 = <u>                  </u>	FAC species <u>                  </u>	x 3 = <u>                  </u>	FACU species <u>                  </u>	x 4 = <u>                  </u>	UPL species <u>                  </u>	x 5 = <u>                  </u>	Column Totals: <u>                  </u> (A)	<u>                  </u> (B)	Prevalence Index = B/A = <u>                  </u>		<b>Hydrophytic Vegetation Indicators:</b>		<u>  x  </u> Dominance Test is >50%		<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>		<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		<b>Hydrophytic Vegetation Present?</b>	Yes <u>      </u> No <u>  x  </u>
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Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 370-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/4/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 371-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): none Slope (%): 2  
 Subregion (LRR): C Lat: 32.55648 Long: -117.018610 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #371.	

## VEGETATION – Use scientific names of plants.

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Total Number of Dominant Species Across All Strata:	<u>2</u> (B)																																																																																																																																																																													
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)																																																																																																																																																																													
<b>Prevalence Index worksheet:</b>																																																																																																																																																																														
Total % Cover of:	Multiply by:																																																																																																																																																																													
OBL species <u>                    </u>	x 1 = <u>                    </u>																																																																																																																																																																													
FACW species <u>                    </u>	x 2 = <u>                    </u>																																																																																																																																																																													
FAC species <u>                    </u>	x 3 = <u>                    </u>																																																																																																																																																																													
FACU species <u>                    </u>	x 4 = <u>                    </u>																																																																																																																																																																													
UPL species <u>                    </u>	x 5 = <u>                    </u>																																																																																																																																																																													
Column Totals: <u>                    </u> (A)	<u>                    </u> (B)																																																																																																																																																																													
Prevalence Index = B/A = <u>                    </u>																																																																																																																																																																														
<b>Hydrophytic Vegetation Indicators:</b>																																																																																																																																																																														
<u>x</u> Dominance Test is >50%																																																																																																																																																																														
<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>																																																																																																																																																																														
<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)																																																																																																																																																																														
<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																																																																																																																																																																														
<b>Hydrophytic Vegetation Present?</b>	Yes <u>x</u> No <u>      </u>																																																																																																																																																																													

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 371-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 3/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: shovel refusal

Depth (inches): 12

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 372-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55635 Long: -117.01859 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>x</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>x</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>x</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>x</u>			
Remarks: Paired sample point for feature #372					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1.					
2.					
3.					
4.					
				= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>30</u> x 3 = <u>90</u> FACU species <u>13</u> x 4 = <u>52</u> UPL species <u>2</u> x 5 = <u>10</u> Column Totals: <u>45</u> (A) <u>152</u> (B) Prevalence Index = B/A = <u>3.4</u>
2.					
3.					
4.					
5.					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1.	<i>Mesembryanthemum nodiflorum</i>	10	Y	FACU	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	<i>Festuca perennis</i>	30	Y	FAC	
3.	<i>Centaurea melitensis</i>	2	N	UPL	
4.	<i>Deinandra fasciculata</i>	1	N	FACU	
5.	<i>Salsola tragus</i>	2	N	FACU	
6.					
7.					
8.					
				45 = Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Hydrophytic Vegetation Present?</b>
2.					
				45 = Total Cover	Yes <u>      </u> No <u>x</u>
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					
Remarks: The sample area does not support a predominance of hydrophytic vegetation.					



## SOIL

Sampling Point: 372-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/4	100					loamy sand	
6-18	10YR 4/3	100						

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 373-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55635 Long: -117.01856 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation   x  , Soil   x  , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes   x   No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>  x  </u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>  x  </u>
Hydric Soil Present? Yes <u>      </u> No <u>  x  </u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>  x  </u>	
Remarks: Paired sample point for feature #373.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>  1  </u> (A) Total Number of Dominant Species Across All Strata: <u>  1  </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>  100  </u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>                    </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>                    </u> Multiply by: <u>                    </u> OBL species <u>                    </u> x 1 = <u>                    </u> FACW species <u>                    </u> x 2 = <u>                    </u> FAC species <u>                    </u> x 3 = <u>                    </u> FACU species <u>                    </u> x 4 = <u>                    </u> UPL species <u>                    </u> x 5 = <u>                    </u> Column Totals: <u>                    </u> (A) <u>                    </u> (B) Prevalence Index = B/A = <u>                    </u>
1.					
2.					
3.					
4.					
		= Total Cover			
Herb Stratum	(Plot size: <u>                    </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>  x  </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<i>Deinandra fasciculata</i>	1	N	FACU	
2.	<i>Festuca perennis</i>	50	Y	FAC	
3.	<i>Mesembryanthemum nodiflorum</i>	5	N	FACU	
4.	<i>Centaurea melitensis</i>	10	N	UPL	
5.	<i>Salsola tragus</i>	2	N	FACU	
6.					
7.					
8.					
		68	= Total Cover		
Woody Vine Stratum	(Plot size: <u>                    </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>  x  </u> No <u>      </u>
1.					
2.					
		68	= Total Cover		
% Bare Ground in Herb Stratum <u>                    </u>		% Cover of Biotic Crust <u>                    </u>			

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 373-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR 4/3	100					sand	
3-7	10YR 3/2	100					sandy clay	
8-18	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/> x
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/> x
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/4/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 375-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa along road Local relief (concave, convex, none): mesa Slope (%): 0  
 Subregion (LRR): C Lat: 32.55602 Long: -117.01853 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #375.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>15</u> x 3 = <u>45</u> FACU species <u>41</u> x 4 = <u>164</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>56</u> (A) <u>209</u> (B) Prevalence Index = B/A = <u>3.7</u>
1.					
2.					
3.					
4.					
5.					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<i>Melilotus indicus</i>	1	N	FACU	
2.	<i>Hordeum marinum</i>	10	N	FAC	
3.	<i>Festuca perennis</i>	5	N	FAC	
4.	<i>Mesembryanthemum nodiflorum</i>	40	Y	FACU	
5.					
6.					
7.					
8.					
		56	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1.					
2.					
		56	= Total Cover		
% Bare Ground in Herb Stratum <u>44</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 375-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.







## SOIL

Sampling Point: 376-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	7.5YR 3/2						sandy clay	
4-18	7.5YR 5/3						sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 377-UPL  
 Investigator(s): Andrew Smisek, Chris Thomson Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55585 Long: -117.01852 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #377.	

## VEGETATION – Use scientific names of plants.

<p><b>Tree Stratum</b> (Plot size: <u>      </u>)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 15%;">Absolute % Cover</th> <th style="width: 15%;">Dominant Species?</th> <th style="width: 10%;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>2. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>3. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>4. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <p><b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u>)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 15%;">Absolute % Cover</th> <th style="width: 15%;">Dominant Species?</th> <th style="width: 10%;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>2. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>3. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>4. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>5. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <p><b>Herb Stratum</b> (Plot size: <u>      </u>)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 15%;">Absolute % Cover</th> <th style="width: 15%;">Dominant Species?</th> <th style="width: 10%;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Hordeum marinum</u></td><td style="text-align: center;">20</td><td style="text-align: center;">Y</td><td style="text-align: center;">FAC</td></tr> <tr><td>2. <u>Mesembryanthemum nodiflorum</u></td><td style="text-align: center;">20</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>3. <u>Festuca perennis</u></td><td style="text-align: center;">5</td><td style="text-align: center;">N</td><td style="text-align: center;">FAC</td></tr> <tr><td>4. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>5. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>6. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>7. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>8. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: right;">45 = Total Cover</td> </tr> </tbody> </table> <p><b>Woody Vine Stratum</b> (Plot size: <u>      </u>)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 15%;">Absolute % Cover</th> <th style="width: 15%;">Dominant Species?</th> <th style="width: 10%;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr><td>2. <u>      </u></td><td><u>      </u></td><td><u>      </u></td><td><u>      </u></td></tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: right;">45 = Total Cover</td> </tr> </tbody> </table> <p>% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u></p>		Absolute % Cover	Dominant Species?	Indicator Status	1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>			= Total Cover			Absolute % Cover	Dominant Species?	Indicator Status	1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>			= Total Cover			Absolute % Cover	Dominant Species?	Indicator Status	1. <u>Hordeum marinum</u>	20	Y	FAC	2. <u>Mesembryanthemum nodiflorum</u>	20	Y	FACU	3. <u>Festuca perennis</u>	5	N	FAC	4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>			45 = Total Cover			Absolute % Cover	Dominant Species?	Indicator Status	1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>			45 = Total Cover		<p><b>Dominance Test worksheet:</b></p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>2</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)</p> <hr/> <p><b>Prevalence Index worksheet:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td style="text-align: center;">x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td style="text-align: center;">x 2 =</td> <td><u>0</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td style="text-align: center;">x 3 =</td> <td><u>75</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td style="text-align: center;">x 4 =</td> <td><u>80</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td style="text-align: center;">x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals: <u>45</u></td> <td style="text-align: center;">(A)</td> <td><u>135</u> (B)</td> </tr> </tbody> </table> <p style="text-align: center;">Prevalence Index = B/A = <u>3</u></p> <hr/> <p><b>Hydrophytic Vegetation Indicators:</b></p> <p><u>      </u> Dominance Test is &gt;50%</p> <p><u>x</u> Prevalence Index is ≤3.0<sup>1</sup></p> <p><u>      </u> Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</p> <p><u>      </u> Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</p> <p><sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p><b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>      </u></p>	Total % Cover of:		Multiply by:	OBL species <u>0</u>	x 1 =	<u>0</u>	FACW species <u>0</u>	x 2 =	<u>0</u>	FAC species <u>25</u>	x 3 =	<u>75</u>	FACU species <u>20</u>	x 4 =	<u>80</u>	UPL species <u>0</u>	x 5 =	<u>0</u>	Column Totals: <u>45</u>	(A)	<u>135</u> (B)
	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																															
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1. <u>Hordeum marinum</u>	20	Y	FAC																																																																																																																															
2. <u>Mesembryanthemum nodiflorum</u>	20	Y	FACU																																																																																																																															
3. <u>Festuca perennis</u>	5	N	FAC																																																																																																																															
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>																																																																																																																															
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FACU species <u>20</u>	x 4 =	<u>80</u>																																																																																																																																
UPL species <u>0</u>	x 5 =	<u>0</u>																																																																																																																																
Column Totals: <u>45</u>	(A)	<u>135</u> (B)																																																																																																																																

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 377-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/2	100					sandy clay	
4-18	10YR 4/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  x  </u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>  x  </u>
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 383-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55640 Long: -117.018673 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #383.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>60</u> x 3 = <u>180</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>65</u> (A) <u>205</u> (B) Prevalence Index = B/A = <u>3.2</u>
Sapling/Shrub Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		
Herb Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Festuca perennis</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Avena barbata</u>	<u>35</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Hordeum marinum</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
4. <u>Glebionis coronaria</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>x</u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>100</u> = Total Cover		
Woody Vine Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>100</u> = Total Cover		
% Bare Ground in Herb Stratum <u>0</u>	% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 383-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	100					loamy sand	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No ☒ x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No ☒ x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/4/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 385-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55605 Long: -117.01874 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #385.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>70</u> (A) <u>230</u> (B) Prevalence Index = B/A = <u>3.2</u>
1.					
2.					
3.					
4.					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Medicago polymorpha</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
2.	<u>Hordeum marinum</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
3.	<u>Festuca perennis</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>	
4.	<u>Mesembryanthemum nodiflorum</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
5.					
6.					
7.					
8.					
		<u>70</u>	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1.					
2.					
		<u>70</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>30</u>		% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 385-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?    Yes _____ No _____ Depth (inches): _____ Saturation Present?    Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	







## SOIL

Sampling Point: 386-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 5/4	100					sand	
4-18	10YR 4/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/4/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 389-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55559 Long: -117.01888 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>X</u>
Hydric Soil Present? Yes <u>      </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	
Remarks: Paired sample point for feature #389.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
			= Total Cover	<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b>				
1. <u>none</u>				
2. <u>      </u>				
3. <u>      </u>				
4. <u>      </u>				
5. <u>      </u>				
			= Total Cover	
<b>Herb Stratum (Plot size: <u>      </u>)</b>				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Deinandra fasciculata</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
2. <u>Hordeum marinum</u>	<u>25</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Festuca perennis</u>	<u>25</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Mesembryanthemum nodiflorum</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
5. <u>Logfia gallica</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>Hypochaeris glabra</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>Acmispon hermannii</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
8. <u>Erodium botrys</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
			<u>57</u> = Total Cover	
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
1. <u>none</u>				
2. <u>      </u>				
			<u>57</u> = Total Cover	
% Bare Ground in Herb Stratum <u>43</u> % Cover of Biotic Crust <u>      </u>				

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 389-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/4/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 390-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55551 Long: -117.01890 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>      </u>	No <u>x</u>
Hydric Soil Present?	Yes <u>      </u>	No <u>x</u>			
Wetland Hydrology Present?	Yes <u>      </u>	No <u>x</u>			
Remarks: Paired sample point for feature #390.					

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A) Total Number of Dominant Species Across All Strata: <u>      </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>      </u> (A/B)
1.					
2.					
3.					
4.					
				= Total Cover	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2.					
3.					
4.					
5.					
				= Total Cover	
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>missing</u>					<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.					
3.					
4.					
5.					
6.					
7.					
8.					
				= Total Cover	
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1.					<b>Hydrophytic Vegetation Present?</b>
2.					
				= Total Cover	Yes <u>      </u> No <u>X</u>
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: this area lacks vegetatoin cover



## SOIL

Sampling Point: 390-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	7.5YR 4/3	100					sand	
3-18	7.5YR 4/4	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                         | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                  | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                 | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) <b>(LRR C)</b> | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) <b>(LRR D)</b>         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)     | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)              | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)              |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) **(LRR C)**  
☐ 2 cm Muck (A10) **(LRR B)**  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                          | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                       | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                             | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b> | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                    | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                   | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**  
☐ Sediment Deposits (B2) **(Riverine)**  
☐ Drift Deposits (B3) **(Riverine)**  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/4/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 392-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55539 Long: -117.01887 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #392.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
					= Total Cover
Sapling/Shrub Stratum (Plot size: <u>      </u> )					
1.					
2.					
3.					
4.					
5.					
					= Total Cover
Herb Stratum (Plot size: <u>      </u> )					
1.	<i>Festuca perennis</i>	20	Y	FAC	
2.	<i>Salsola tragus</i>	1	N	FACU	
3.	<i>Hordeum marinum</i>	35	Y	FAC	
4.	<i>Mesembryanthemum nodiflorum</i>	10	N	FACU	
5.					
6.					
7.					
8.					
					66 = Total Cover
Woody Vine Stratum (Plot size: <u>      </u> )					
1.					
2.					
					66 = Total Cover
% Bare Ground in Herb Stratum <u>34</u>		% Cover of Biotic Crust <u>      </u>			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of:        Multiply by:         
 OBL species        x 1 =         
 FACW species        x 2 =         
 FAC species        x 3 =         
 FACU species        x 4 =         
 UPL species        x 5 =         
 Column Totals:        (A)        (B)  
 Prevalence Index = B/A =

**Hydrophytic Vegetation Indicators:**  
x Dominance Test is >50%  
       Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

**Hydrophytic Vegetation Present?** Yes x No

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 392-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/> x
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?    Yes _____ No _____ Depth (inches): _____ Saturation Present?    Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/> x
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/4/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 393-UPL  
 Investigator(s): Andrew Smisek, Chelsea Polevy Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55528 Long: -117.01885 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #393.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: center;">(Plot size: <u>          </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: center;">(Plot size: <u>          </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: center;">(Plot size: <u>          </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1.</td><td><i>Festuca perennis</i></td><td style="text-align: center;">45</td><td style="text-align: center;">Y</td><td style="text-align: center;">FAC</td></tr> <tr><td>2.</td><td><i>Hordeum marinum</i></td><td style="text-align: center;">20</td><td style="text-align: center;">Y</td><td style="text-align: center;">FAC</td></tr> <tr><td>3.</td><td><i>Avena sp</i></td><td style="text-align: center;">15</td><td style="text-align: center;">N</td><td style="text-align: center;">UPL</td></tr> <tr><td>4.</td><td><i>Bromus diandrus</i></td><td style="text-align: center;">15</td><td style="text-align: center;">N</td><td style="text-align: center;">FACU</td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td>6.</td><td></td><td></td><td></td><td></td></tr> <tr><td>7.</td><td></td><td></td><td></td><td></td></tr> <tr><td>8.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">95</td> <td colspan="2" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: center;">(Plot size: <u>          </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">95</td> <td colspan="2" style="text-align: right;">= Total Cover</td> </tr> </tbody> </table> <p>% Bare Ground in Herb Stratum <u>          </u> % Cover of Biotic Crust <u>          </u></p>	Tree Stratum	(Plot size: <u>          </u> )	Absolute % Cover	Dominant Species?	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		95	= Total Cover																																																																																																																																																																											
<b>Dominance Test worksheet:</b>																																																																																																																																																																														
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)																																																																																																																																																																													
Total Number of Dominant Species Across All Strata:	<u>2</u> (B)																																																																																																																																																																													
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)																																																																																																																																																																													
<b>Prevalence Index worksheet:</b>																																																																																																																																																																														
Total % Cover of:	Multiply by:																																																																																																																																																																													
OBL species <u>          </u>	x 1 = <u>          </u>																																																																																																																																																																													
FACW species <u>          </u>	x 2 = <u>          </u>																																																																																																																																																																													
FAC species <u>          </u>	x 3 = <u>          </u>																																																																																																																																																																													
FACU species <u>          </u>	x 4 = <u>          </u>																																																																																																																																																																													
UPL species <u>          </u>	x 5 = <u>          </u>																																																																																																																																																																													
Column Totals: <u>          </u> (A)	<u>          </u> (B)																																																																																																																																																																													
Prevalence Index = B/A = <u>          </u>																																																																																																																																																																														
<b>Hydrophytic Vegetation Indicators:</b>																																																																																																																																																																														
<u>      </u> Dominance Test is >50%																																																																																																																																																																														
<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>																																																																																																																																																																														
<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)																																																																																																																																																																														
<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																																																																																																																																																																														
<b>Hydrophytic Vegetation Present?</b>	Yes <u>x</u> No <u>      </u>																																																																																																																																																																													

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 393-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/2	100					loamy sand	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/> x
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?    Yes _____ No _____ Depth (inches): _____ Saturation Present?    Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/> x
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: 396-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.54679 Long: -117.02272 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #396.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				
1.					
2.					
3.					
4.					
5.					
		= Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				
1.	<i>Festuca perennis</i>	15	Y	FAC	
2.	<i>Deinandra fasciculata</i>	2	N	FACU	
3.	<i>Foeniculum vulgare</i>	5	N	UPL	
4.	<i>Rumex crispus</i>	5	N	FAC	
5.	<i>Verbena menthifolia</i>	15	Y	FAC	
6.	<i>Centaurea melitensis</i>	5	N	UPL	
7.					
8.					
		47	= Total Cover		
Woody Vine Stratum	(Plot size: <u>      </u> )				
1.					
2.					
		47	= Total Cover		
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of:        Multiply by:         
 OBL species        x 1 =         
 FACW species        x 2 =         
 FAC species        x 3 =         
 FACU species        x 4 =         
 UPL species        x 5 =         
 Column Totals:        (A)        (B)  
 Prevalence Index = B/A =

**Hydrophytic Vegetation Indicators:**  
x Dominance Test is >50%  
       Prevalence Index is ≤3.0<sup>1</sup>  
       Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

**Hydrophytic Vegetation Present?** Yes x No

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: 396-UPL

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C)    | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)            | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (LRR C)  
☐ 2 cm Muck (A10) (LRR B)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine)            | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (Riverine)  
☐ Sediment Deposits (B2) (Riverine)  
☐ Drift Deposits (B3) (Riverine)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/8/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: P1-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55225 Long: -117.01405 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30-50% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #P1.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>58</u> x 3 = <u>174</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>40</u> x 5 = <u>200</u> Column Totals: <u>98</u> (A) <u>374</u> (B) Prevalence Index = B/A = <u>3.8</u>
<b>Sapling/Shrub Stratum</b> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
= Total Cover				
<b>Herb Stratum</b> (Plot size: _____)				<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <i>Stipa pulchra</i>	30	Y	UPL	
2. <i>Avena fatua</i>	10	N	UPL	
3. <i>Festuca perennis</i>	58	Y	FAC	
4. <i>Dipterostemon capitatus</i>	1	N	NI	
5. <i>Calochortus splendens</i>	1	N	NI	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
100 = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: _____)				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
100 = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: P1-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/8/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: P3-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): small mound Local relief (concave, convex, none): slope Slope (%): 2  
 Subregion (LRR): C Lat: 32.55250 Long: -117.01297 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 30-50% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #P3.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>15</u> x 3 = <u>45</u> FACU species <u>6</u> x 4 = <u>24</u> UPL species <u>16</u> x 5 = <u>80</u> Column Totals: <u>37</u> (A) <u>149</u> (B) Prevalence Index = B/A = <u>4</u>
<b>Sapling/Shrub Stratum (Plot size: <u>      </u>)</b> 1. <u>Artemisia californica</u> <u>5</u> <u>N</u> <u>NI</u> 2. <u>      </u> <u>      </u> <u>      </u> <u>      </u> 3. <u>      </u> <u>      </u> <u>      </u> <u>      </u> 4. <u>      </u> <u>      </u> <u>      </u> <u>      </u> 5. <u>      </u> <u>      </u> <u>      </u> <u>      </u> <u>5</u> = Total Cover				
<b>Herb Stratum (Plot size: <u>      </u>)</b> 1. <u>Bromus rubens</u> <u>15</u> <u>Y</u> <u>UPL</u> 2. <u>Festuca perennis</u> <u>15</u> <u>Y</u> <u>FAC</u> 3. <u>Bromus diandrus</u> <u>5</u> <u>N</u> <u>FACU</u> 4. <u>Stipa pulchra</u> <u>1</u> <u>N</u> <u>UPL</u> 5. <u>Deinandra fasciculata</u> <u>1</u> <u>N</u> <u>FACU</u> 6. <u>      </u> <u>      </u> <u>      </u> <u>      </u> 7. <u>      </u> <u>      </u> <u>      </u> <u>      </u> 8. <u>      </u> <u>      </u> <u>      </u> <u>      </u> <u>37</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>      </u>)</b> 1. <u>      </u> <u>      </u> <u>      </u> <u>      </u> 2. <u>      </u> <u>      </u> <u>      </u> <u>      </u> <u>42</u> = Total Cover				
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: P3-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	7.5YR 4/3	100					sandy loam	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/8/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: P4-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55303 Long: -117.01135 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #P4.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
Sapling/Shrub Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		
Herb Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Festuca perennis</u>	<u>97</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Bromus diandrus</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
3. <u>Avena barbata</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>100</u> = Total Cover		
Woody Vine Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>      </u>
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>100</u> = Total Cover		
% Bare Ground in Herb Stratum <u>      </u>	% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: P4-UPL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> )	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

### Indicators for Problematic Hydric Soils<sup>3</sup>:

\_\_\_\_\_ 1 cm Muck (A9) (**LRR C**)  
 \_\_\_\_\_ 2 cm Muck (A10) (**LRR B**)  
 \_\_\_\_\_ Reduced Vertic (F18)  
 \_\_\_\_\_ Red Parent Material (TF2)  
 \_\_\_\_\_ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if present):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes	No	x
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b>	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

<b>Wetland Hydrology Present?</b>	Yes	No	x
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/5/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: P6-UPL  
 Investigator(s): Andrew Smisek, JR Sundberg, Chris Thomson Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55217 Long: -117.01129 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #P6.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>Artemisia californica</u>	<u>10</u>	<u>Y</u>	<u>NI</u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>10</u> = Total Cover				
<b>Herb Stratum</b> (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Festuca perennis</u>	<u>70</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Bromus diandrus</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
3. <u>Avena barbata</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
4. <u>Hypochaeris glabra</u>	<u>&lt;1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Dipterostemon capitatus</u>	<u>&lt;1</u>	<u>N</u>	<u>NI</u>	
6. <u>Calochortus splendens</u>	<u>&lt;1</u>	<u>N</u>	<u>NI</u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>90</u> = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>      </u>
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>100</u> = Total Cover				
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: P6-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)  
☐ 2 cm Muck (A10) (**LRR B**)  
☐ Reduced Vertic (F18)  
☐ Red Parent Material (TF2)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)  
☐ Sediment Deposits (B2) (**Riverine**)  
☐ Drift Deposits (B3) (**Riverine**)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Thin Muck Surface (C7)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Shallow Aquitard (D3)  
☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/5/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: P7-UPL  
 Investigator(s): Andrew Smisek, JR Sundberg, Chris Thomson Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 2  
 Subregion (LRR): C Lat: 32.55189 Long: -117.01094 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #P7.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>44</u> x 3 = <u>132</u> FACU species <u>0.5</u> x 4 = <u>2</u> UPL species <u>55</u> x 5 = <u>275</u> Column Totals: <u>99.5</u> (A) <u>409</u> (B) Prevalence Index = B/A = <u>4.1</u>
<b>Sapling/Shrub Stratum</b> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
= Total Cover				
<b>Herb Stratum</b> (Plot size: _____)				<b>Hydrophytic Vegetation Indicators:</b> _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Festuca perennis</u>	<u>44</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Avena barbata</u>	<u>55</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Bloomeria crocea</u>	<u>0.5</u>	<u>N</u>	<u>FACU</u>	
4. <u>Calochortus splendens</u>	<u>0.5</u>	<u>N</u>	<u>NI</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
100 = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: _____)				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
100 = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: P7-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	7.5YR 3/3	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                           | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                    | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                       | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) ( <b>LRR C</b> ) | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) ( <b>LRR D</b> )         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)       | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)                | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                            | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                         | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> ) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                      | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)     | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                     | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: P8-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 10  
 Subregion (LRR): C Lat: 32.55091 Long: -117.01115 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #P8.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="3" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="3" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><i>Deinandra fasciculata</i></td><td style="text-align: center;">10</td><td style="text-align: center;">N</td><td style="text-align: center;">FACU</td></tr> <tr><td>2.</td><td><i>Avena sp</i></td><td style="text-align: center;">40</td><td style="text-align: center;">Y</td><td style="text-align: center;">UPL</td></tr> <tr><td>3.</td><td><i>Bromus rubens</i></td><td style="text-align: center;">10</td><td style="text-align: center;">N</td><td style="text-align: center;">UPL</td></tr> <tr><td>4.</td><td><i>Erodium botrys</i></td><td style="text-align: center;">30</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td>6.</td><td></td><td></td><td></td><td></td></tr> <tr><td>7.</td><td></td><td></td><td></td><td></td></tr> <tr><td>8.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td style="text-align: center;">90</td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td style="text-align: center;">90</td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </table> <p>% Bare Ground in Herb Stratum <u>                    </u> % Cover of Biotic Crust <u>                    </u></p>	Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.					3.					4.							= Total Cover			Sapling/Shrub Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.					3.					4.					5.							= Total Cover			Herb Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.	<i>Deinandra fasciculata</i>	10	N	FACU	2.	<i>Avena sp</i>	40	Y	UPL	3.	<i>Bromus rubens</i>	10	N	UPL	4.	<i>Erodium botrys</i>	30	Y	FACU	5.					6.					7.					8.							90	= Total Cover		Woody Vine Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	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## SOIL

Sampling Point: P8-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____ No <u>x</u>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?    Yes _____ No _____ Depth (inches): _____ Saturation Present?    Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/18/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: P13-UPL  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55344 Long: -117.00950 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #P13.	

## VEGETATION – Use scientific names of plants.

<b>Tree Stratum</b> (Plot size: <u>      </u> ) 1. <u>      </u> 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> <u>      </u> = Total Cover <b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> ) 1. <u>Rhus integrifolia</u> 5 Y UPL 2. <u>Artemisia californica</u> 5 Y UPL 3. <u>Eriogonum fasciculatum</u> 5 Y UPL 4. <u>      </u> 5. <u>      </u> <u>      </u> 15 = Total Cover <b>Herb Stratum</b> (Plot size: <u>      </u> ) 1. <u>Festuca perennis</u> 70 Y FAC 2. <u>Erodium botrys</u> 2 N FACU 3. <u>Avena sp.</u> 2 N UPL 4. <u>Hordeum marinum</u> 1 N FAC 5. <u>Deinandra fasciculata</u> 1 N FACU 6. <u>Logfia gallica</u> 1 N UPL 7. <u>Hordeum intercedens</u> 1 N FAC 8. <u>      </u> <u>      </u> 78 = Total Cover <b>Woody Vine Stratum</b> (Plot size: <u>      </u> ) 1. <u>      </u> 2. <u>      </u> <u>      </u> 93 = Total Cover % Bare Ground in Herb Stratum <u>22</u> % Cover of Biotic Crust <u>      </u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%;"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>72</u></td> <td>x 3 = <u>216</u></td> </tr> <tr> <td>FACU species <u>3</u></td> <td>x 4 = <u>12</u></td> </tr> <tr> <td>UPL species <u>18</u></td> <td>x 5 = <u>90</u></td> </tr> <tr> <td>Column Totals: <u>93</u> (A)</td> <td><u>318</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.4</u>  <b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  <b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>X</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>72</u>	x 3 = <u>216</u>	FACU species <u>3</u>	x 4 = <u>12</u>	UPL species <u>18</u>	x 5 = <u>90</u>	Column Totals: <u>93</u> (A)	<u>318</u> (B)
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Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: P13-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/2	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                         | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Histic Epipedon (A2)                  | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Black Histic (A3)                     | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                 | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <input type="checkbox"/> Stratified Layers (A5) <b>(LRR C)</b> | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> 1 cm Muck (A9) <b>(LRR D)</b>         | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)     | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12)              | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Vernal Pools (F9)          |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)              |   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ 1 cm Muck (A9) **(LRR C)**
- ☐ 2 cm Muck (A10) **(LRR B)**
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No x

Remarks: No hydric soil indicators observed.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Surface Water (A1)                          | <input type="checkbox"/> Salt Crust (B11)                              |
| <input type="checkbox"/> High Water Table (A2)                       | <input type="checkbox"/> Biotic Crust (B12)                            |
| <input type="checkbox"/> Saturation (A3)                             | <input type="checkbox"/> Aquatic Invertebrates (B13)                   |
| <input type="checkbox"/> Water Marks (B1) <b>(Nonriverine)</b>       | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    |
| <input type="checkbox"/> Sediment Deposits (B2) <b>(Nonriverine)</b> | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) <b>(Nonriverine)</b>    | <input type="checkbox"/> Presence of Reduced Iron (C4)                 |
| <input type="checkbox"/> Surface Soil Cracks (B6)                    | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)   | <input type="checkbox"/> Thin Muck Surface (C7)                        |
| <input type="checkbox"/> Water-Stained Leaves (B9)                   | <input type="checkbox"/> Other (Explain in Remarks)                    |

**Secondary Indicators (2 or more required)**

- ☐ Water Marks (B1) **(Riverine)**
- ☐ Sediment Deposits (B2) **(Riverine)**
- ☐ Drift Deposits (B3) **(Riverine)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/15/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1223-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 2  
 Subregion (LRR): C Lat: 32.55352 Long: -117.02280 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #VPCHP1223.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1.					
2.					
3.					
4.					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>                    </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>          </u> Multiply by: <u>          </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>40</u> x 5 = <u>200</u> Column Totals: <u>100</u> (A) <u>390</u> (B) Prevalence Index = B/A = <u>3.9</u>
1.					
2.					
3.					
4.					
		= Total Cover			
Herb Stratum	(Plot size: <u>                    </u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <i>Avena sp</i>		40	Y	UPL	
2. <i>Bromus diandrus</i>		9	N	FACU	
3. <i>Festuca perennis</i>		50	Y	FAC	
4. <i>Deinandra fasciculata</i>		<1	N	FACU	
5.					
6.					
7.					
8.					
		100	= Total Cover		
Woody Vine Stratum	(Plot size: <u>                    </u> )				
1.					
2.					
		100	= Total Cover		
% Bare Ground in Herb Stratum <u>                    </u>		% Cover of Biotic Crust <u>                    </u>			

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: VPHCP1223-U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-14	10YR 4/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>14</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1778-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55 Long: -117.02 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #VPHCP1778.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><i>Hordeum murinum</i></td><td style="text-align: center;">55</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>2.</td><td><i>Avena barbata</i></td><td style="text-align: center;">39</td><td style="text-align: center;">Y</td><td style="text-align: center;">UPL</td></tr> <tr><td>3.</td><td><i>Festuca perennis</i></td><td style="text-align: center;">1</td><td style="text-align: center;">N</td><td style="text-align: center;">FAC</td></tr> <tr><td>4.</td><td><i>Croton setiger</i></td><td style="text-align: center;">5</td><td style="text-align: center;">N</td><td style="text-align: center;">NI</td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td>6.</td><td></td><td></td><td></td><td></td></tr> <tr><td>7.</td><td></td><td></td><td></td><td></td></tr> <tr><td>8.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">100</td> <td colspan="2" style="text-align: right;">= Total Cover</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">100</td> <td colspan="2" style="text-align: right;">= Total Cover</td> </tr> </table> <p>% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>                    </u></p>	Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.					3.					4.							= Total Cover			Sapling/Shrub Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.					3.					4.					5.							= Total Cover			Herb Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.	<i>Hordeum murinum</i>	55	Y	FACU	2.	<i>Avena barbata</i>	39	Y	UPL	3.	<i>Festuca perennis</i>	1	N	FAC	4.	<i>Croton setiger</i>	5	N	NI	5.					6.					7.					8.							100	= Total Cover		Woody Vine Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.							100	= Total Cover		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Dominance Test worksheet:</th> </tr> <tr> <td>Number of Dominant Species That Are OBL, FACW, or FAC:</td> <td style="text-align: center;"><u>0</u> (A)</td> </tr> <tr> <td>Total Number of Dominant Species Across All Strata:</td> <td style="text-align: center;"><u>2</u> (B)</td> </tr> <tr> <td>Percent of Dominant Species That Are OBL, FACW, or FAC:</td> <td style="text-align: center;"><u>0</u> (A/B)</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Prevalence Index worksheet:</th> </tr> <tr> <td style="text-align: center;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>1</u></td> <td style="text-align: center;">x 3 = <u>3</u></td> </tr> <tr> <td>FACU species <u>55</u></td> <td style="text-align: center;">x 4 = <u>120</u></td> </tr> <tr> <td>UPL species <u>39</u></td> <td style="text-align: center;">x 5 = <u>195</u></td> </tr> <tr> <td>Column Totals: <u>95</u> (A)</td> <td style="text-align: center;"><u>318</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.3</u></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Hydrophytic Vegetation Indicators:</th> </tr> <tr> <td><u>      </u> Dominance Test is &gt;50%</td> <td></td> </tr> <tr> <td><u>      </u> Prevalence Index is ≤3.0<sup>1</sup></td> <td></td> </tr> <tr> <td><u>      </u> Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</td> <td></td> </tr> <tr> <td><u>      </u> Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</td> <td></td> </tr> </table> <p><sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Hydrophytic Vegetation Present?</th> <th style="text-align: center;">Yes <u>      </u></th> <th style="text-align: center;">No <u>x</u></th> </tr> </table>	Dominance Test worksheet:		Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)	Total Number of Dominant Species Across All Strata:	<u>2</u> (B)	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A/B)	Prevalence Index worksheet:		Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>1</u>	x 3 = <u>3</u>	FACU species <u>55</u>	x 4 = <u>120</u>	UPL species <u>39</u>	x 5 = <u>195</u>	Column Totals: <u>95</u> (A)	<u>318</u> (B)	Prevalence Index = B/A = <u>3.3</u>		Hydrophytic Vegetation Indicators:		<u>      </u> Dominance Test is >50%		<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>		<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>x</u>
Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																											
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Herb Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																											
1.	<i>Hordeum murinum</i>	55	Y	FACU																																																																																																																																																																											
2.	<i>Avena barbata</i>	39	Y	UPL																																																																																																																																																																											
3.	<i>Festuca perennis</i>	1	N	FAC																																																																																																																																																																											
4.	<i>Croton setiger</i>	5	N	NI																																																																																																																																																																											
5.																																																																																																																																																																															
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		100	= Total Cover																																																																																																																																																																												
Woody Vine Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																											
1.																																																																																																																																																																															
2.																																																																																																																																																																															
		100	= Total Cover																																																																																																																																																																												
Dominance Test worksheet:																																																																																																																																																																															
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)																																																																																																																																																																														
Total Number of Dominant Species Across All Strata:	<u>2</u> (B)																																																																																																																																																																														
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A/B)																																																																																																																																																																														
Prevalence Index worksheet:																																																																																																																																																																															
Total % Cover of:	Multiply by:																																																																																																																																																																														
OBL species <u>0</u>	x 1 = <u>0</u>																																																																																																																																																																														
FACW species <u>0</u>	x 2 = <u>0</u>																																																																																																																																																																														
FAC species <u>1</u>	x 3 = <u>3</u>																																																																																																																																																																														
FACU species <u>55</u>	x 4 = <u>120</u>																																																																																																																																																																														
UPL species <u>39</u>	x 5 = <u>195</u>																																																																																																																																																																														
Column Totals: <u>95</u> (A)	<u>318</u> (B)																																																																																																																																																																														
Prevalence Index = B/A = <u>3.3</u>																																																																																																																																																																															
Hydrophytic Vegetation Indicators:																																																																																																																																																																															
<u>      </u> Dominance Test is >50%																																																																																																																																																																															
<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>																																																																																																																																																																															
<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)																																																																																																																																																																															
<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																																																																																																																																																																															
Hydrophytic Vegetation Present?	Yes <u>      </u>	No <u>x</u>																																																																																																																																																																													
Remarks: The sample area does not support a predominance of hydrophytic vegetation.																																																																																																																																																																															



## SOIL

Sampling Point: VPHCP1778-U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/3	100					loamy sand	
4-6	10YR 4/4	100					sand	
7-18	10YR 3/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed. Potential soil disturbance.

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
		<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 5/10/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP136-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55426 Long: -117.02271 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9 % slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>      </u> Hydric Soil Present? Yes <u>      </u> No <u>X</u> Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>X</u>
Remarks: Upland sample point paired to feature VPHCP136 wetland point. This sampled area is not a wetland.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
= Total Cover					
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
5. <u>      </u>					
= Total Cover					
<b>Herb Stratum</b> (Plot size: <u>      </u> )					
1. <u>Festuca perennis</u>		<u>95</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Erodium botrys</u>		<u>3</u>	<u>N</u>	<u>FACU</u>	
3. <u>Deinandra fasciculata</u>		<u>2</u>	<u>N</u>	<u>FACU</u>	
4. <u>      </u>					
5. <u>      </u>					
6. <u>      </u>					
7. <u>      </u>					
8. <u>      </u>					
= Total Cover					
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )					
1. <u>none</u>					<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>      </u>
2. <u>      </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: VPHCP 136-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>X</u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 7/5/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP420-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.55686 Long: -117.01848 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #VPHCP420	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: left;">Absolute % Cover</th> <th style="text-align: left;">Dominant Species?</th> <th style="text-align: left;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="5" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: left;">Absolute % Cover</th> <th style="text-align: left;">Dominant Species?</th> <th style="text-align: left;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="5" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: left;">Absolute % Cover</th> <th style="text-align: left;">Dominant Species?</th> <th style="text-align: left;">Indicator Status</th> </tr> <tr><td>1.</td><td><i>Festuca myuros</i></td><td>90</td><td>Y</td><td>FACU</td></tr> <tr><td>2.</td><td><i>Avena barbata</i></td><td>10</td><td>N</td><td>UPL</td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td>6.</td><td></td><td></td><td></td><td></td></tr> <tr><td>7.</td><td></td><td></td><td></td><td></td></tr> <tr><td>8.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="5" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: left;">Absolute % Cover</th> <th style="text-align: left;">Dominant Species?</th> <th style="text-align: left;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="5" style="text-align: right;">= Total Cover</td></tr> </table> <p>% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>                    </u></p>	Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.					3.					4.					= Total Cover					Sapling/Shrub Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.					3.					4.					5.					= Total Cover					Herb Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.	<i>Festuca myuros</i>	90	Y	FACU	2.	<i>Avena barbata</i>	10	N	UPL	3.					4.					5.					6.					7.					8.					= Total Cover					Woody Vine Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	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Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: VPHCP420-U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy clay	no redox

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  x  </u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?      Yes _____ No _____ Depth (inches): _____ Saturation Present?        Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>  x  </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	







## SOIL

Sampling Point: VPHCP539-U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 2/1	100					clay loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>12</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed. Much organic material present.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	







## SOIL

Sampling Point: VPHCP1224-U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-14	10YR 4/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>14</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1754-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.54775 Long: -117.01456 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #VPHCP1754.	

## VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>					
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		= Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>      </u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>90</u> x 5 = <u>450</u> Column Totals: <u>97</u> (A) <u>473</u> (B) Prevalence Index = B/A = <u>4.9</u>
1. <u>Simmondsia chinensis</u>		10	Y	UPL	
2. <u>      </u>					
3. <u>      </u>					
4. <u>      </u>					
		10 = Total Cover			
Herb Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 <sup>1</sup> ___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Brachypodium distachyon</u>		80	Y	UPL	
2. <u>Hordeum marinum</u>		5	N	FAC	
3. <u>Bromus diandrus</u>		2	N	FACU	
4. <u>      </u>					
		87 = Total Cover			
Woody Vine Stratum	(Plot size: <u>      </u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
1. <u>      </u>					
2. <u>      </u>					
		97 = Total Cover			
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>					

Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: VPHCP1754-U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  x  </u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>  x  </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1755-U  
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## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #VPHCP1755.	

## VEGETATION – Use scientific names of plants.

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Remarks: The sample area does not support a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: VPHCP1755-U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
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<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
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<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  x  </u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>  x  </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1756-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.54603 Long: -117.02216 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #VPHCP1756.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="3" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><i>Simmondsia chinensis</i></td><td style="text-align: center;">30</td><td style="text-align: center;">Y</td><td style="text-align: center;">UPL</td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td colspan="3" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><i>Deinandra fasciculata</i></td><td style="text-align: center;">20</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>2.</td><td><i>Bromus rubens</i></td><td style="text-align: center;">20</td><td style="text-align: center;">Y</td><td style="text-align: center;">UPL</td></tr> <tr><td>3.</td><td><i>Stipa pulchra</i></td><td style="text-align: center;">10</td><td style="text-align: center;">N</td><td style="text-align: center;">UPL</td></tr> <tr><td>4.</td><td><i>Melica sp.</i></td><td style="text-align: center;">5</td><td style="text-align: center;">N</td><td style="text-align: center;">NI</td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr><td>6.</td><td></td><td></td><td></td><td></td></tr> <tr><td>7.</td><td></td><td></td><td></td><td></td></tr> <tr><td>8.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td style="text-align: center;">55</td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td style="text-align: center;">85</td><td colspan="2" style="text-align: right;">= Total Cover</td></tr> </table> <p>% Bare Ground in Herb Stratum <u>                    </u> % Cover of Biotic Crust <u>                    </u></p>	Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	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<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>12</u>	Hydric Soil Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1757-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.54532 Long: -117.02273 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #VPHCP1757.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>90</u> x 5 = <u>450</u> Column Totals: <u>90</u> (A) <u>450</u> (B) Prevalence Index = B/A = <u>5</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> )				
1. <u>Artemisia californica</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Indicators:</b> <u>      </u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				
<b>Herb Stratum</b> (Plot size: <u>      </u> )				
1. <u>Centaurea melitensis</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
2. <u>Avena sp.</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
3. <u>Bromus rubens</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
4. <u>Stephanomeria diegensis</u>	<u>1</u>	<u>N</u>	<u>NI</u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>61</u> = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> )				
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>x</u>
<u>91</u> = Total Cover				
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				
Remarks: The sample area does not support a predominance of hydrophytic vegetation.				



## SOIL

Sampling Point: \_\_\_\_\_

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 2/1	100					clay loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: <u>shovel refusal</u> Depth (inches): <u>10</u>	Hydric Soil Present?    Yes _____ No <u>x</u>
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Remarks: No hydric soil indicators observed. Rock cobble throughout.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?    Yes _____ No _____ Depth (inches): _____ Saturation Present?    Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>x</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/21/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP1758-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.54588 Long: -117.02452 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>x</u> Hydric Soil Present? Yes <u>      </u> No <u>x</u> Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>      </u> No <u>x</u>
Remarks: Paired sample point for feature #VPHCP1758.	

## VEGETATION – Use scientific names of plants.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><i>Simmondsia chinensis</i></td><td style="text-align: center;">40</td><td style="text-align: center;">Y</td><td style="text-align: center;">UPL</td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td><i>Deinandra fasciculata</i></td><td style="text-align: center;">2</td><td style="text-align: center;">N</td><td style="text-align: center;">FACU</td></tr> <tr><td>2.</td><td><i>Bromus rubens</i></td><td style="text-align: center;">40</td><td style="text-align: center;">Y</td><td style="text-align: center;">UPL</td></tr> <tr><td>3.</td><td><i>Avena sp</i></td><td style="text-align: center;">5</td><td style="text-align: center;">N</td><td style="text-align: center;">UPL</td></tr> <tr><td>4.</td><td><i>Centaurea melitensis</i></td><td style="text-align: center;">2</td><td style="text-align: center;">N</td><td style="text-align: center;">UPL</td></tr> <tr><td>5.</td><td><i>Bromus diandrus</i></td><td style="text-align: center;">2</td><td style="text-align: center;">N</td><td style="text-align: center;">FACU</td></tr> <tr><td>6.</td><td><i>Nicotiana clevelandii</i></td><td style="text-align: center;">2</td><td style="text-align: center;">N</td><td style="text-align: center;">FACU</td></tr> <tr><td>7.</td><td><i>Lamarckia aurea</i></td><td style="text-align: center;">2</td><td style="text-align: center;">N</td><td style="text-align: center;">FACU</td></tr> <tr><td>8.</td><td><i>Phacelia cicutaria</i></td><td style="text-align: center;">2</td><td style="text-align: center;">N</td><td style="text-align: center;">NI</td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: left;">(Plot size: <u>                    </u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1.</td><td></td><td></td><td></td><td></td></tr> <tr><td>2.</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td colspan="3" style="text-align: right;">= Total Cover</td> </tr> </table> <p style="margin-top: 10px;">         % Bare Ground in Herb Stratum <u>                    </u> % Cover of Biotic Crust <u>                    </u> </p>	Tree Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.					3.					4.							= Total Cover			Sapling/Shrub Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.	<i>Simmondsia chinensis</i>	40	Y	UPL	2.					3.					4.					5.							= Total Cover			Herb Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.	<i>Deinandra fasciculata</i>	2	N	FACU	2.	<i>Bromus rubens</i>	40	Y	UPL	3.	<i>Avena sp</i>	5	N	UPL	4.	<i>Centaurea melitensis</i>	2	N	UPL	5.	<i>Bromus diandrus</i>	2	N	FACU	6.	<i>Nicotiana clevelandii</i>	2	N	FACU	7.	<i>Lamarckia aurea</i>	2	N	FACU	8.	<i>Phacelia cicutaria</i>	2	N	NI			= Total Cover			Woody Vine Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	1.					2.							= Total Cover			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Dominance Test worksheet:</th> </tr> <tr> <td>Number of Dominant Species That Are OBL, FACW, or FAC:</td> <td style="text-align: right;"><u>0</u> (A)</td> </tr> <tr> <td>Total Number of Dominant Species Across All Strata:</td> <td style="text-align: right;"><u>2</u> (B)</td> </tr> <tr> <td>Percent of Dominant Species That Are OBL, FACW, or FAC:</td> <td style="text-align: right;"><u>0</u> (A/B)</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Prevalence Index worksheet:</th> </tr> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>8</u></td> <td>x 4 = <u>32</u></td> </tr> <tr> <td>UPL species <u>87</u></td> <td>x 5 = <u>435</u></td> </tr> <tr> <td>Column Totals: <u>95</u> (A)</td> <td><u>267</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.6</u></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Hydrophytic Vegetation Indicators:</th> </tr> <tr> <td><u>      </u> Dominance Test is &gt;50%</td> <td></td> </tr> <tr> <td><u>      </u> Prevalence Index is ≤3.0<sup>1</sup></td> <td></td> </tr> <tr> <td><u>      </u> Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</td> <td></td> </tr> <tr> <td><u>      </u> Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Hydrophytic Vegetation Present?</th> </tr> <tr> <td>Yes <u>      </u></td> <td>No <u>x</u></td> </tr> </table>	Dominance Test worksheet:		Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)	Total Number of Dominant Species Across All Strata:	<u>2</u> (B)	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A/B)	Prevalence Index worksheet:		Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>8</u>	x 4 = <u>32</u>	UPL species <u>87</u>	x 5 = <u>435</u>	Column Totals: <u>95</u> (A)	<u>267</u> (B)	Prevalence Index = B/A = <u>4.6</u>		Hydrophytic Vegetation Indicators:		<u>      </u> Dominance Test is >50%		<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>		<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		Hydrophytic Vegetation Present?		Yes <u>      </u>	No <u>x</u>
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Sapling/Shrub Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																												
1.	<i>Simmondsia chinensis</i>	40	Y	UPL																																																																																																																																																																												
2.																																																																																																																																																																																
3.																																																																																																																																																																																
4.																																																																																																																																																																																
5.																																																																																																																																																																																
		= Total Cover																																																																																																																																																																														
Herb Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																												
1.	<i>Deinandra fasciculata</i>	2	N	FACU																																																																																																																																																																												
2.	<i>Bromus rubens</i>	40	Y	UPL																																																																																																																																																																												
3.	<i>Avena sp</i>	5	N	UPL																																																																																																																																																																												
4.	<i>Centaurea melitensis</i>	2	N	UPL																																																																																																																																																																												
5.	<i>Bromus diandrus</i>	2	N	FACU																																																																																																																																																																												
6.	<i>Nicotiana clevelandii</i>	2	N	FACU																																																																																																																																																																												
7.	<i>Lamarckia aurea</i>	2	N	FACU																																																																																																																																																																												
8.	<i>Phacelia cicutaria</i>	2	N	NI																																																																																																																																																																												
		= Total Cover																																																																																																																																																																														
Woody Vine Stratum	(Plot size: <u>                    </u> )	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																																																																																												
1.																																																																																																																																																																																
2.																																																																																																																																																																																
		= Total Cover																																																																																																																																																																														
Dominance Test worksheet:																																																																																																																																																																																
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)																																																																																																																																																																															
Total Number of Dominant Species Across All Strata:	<u>2</u> (B)																																																																																																																																																																															
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A/B)																																																																																																																																																																															
Prevalence Index worksheet:																																																																																																																																																																																
Total % Cover of:	Multiply by:																																																																																																																																																																															
OBL species <u>0</u>	x 1 = <u>0</u>																																																																																																																																																																															
FACW species <u>0</u>	x 2 = <u>0</u>																																																																																																																																																																															
FAC species <u>0</u>	x 3 = <u>0</u>																																																																																																																																																																															
FACU species <u>8</u>	x 4 = <u>32</u>																																																																																																																																																																															
UPL species <u>87</u>	x 5 = <u>435</u>																																																																																																																																																																															
Column Totals: <u>95</u> (A)	<u>267</u> (B)																																																																																																																																																																															
Prevalence Index = B/A = <u>4.6</u>																																																																																																																																																																																
Hydrophytic Vegetation Indicators:																																																																																																																																																																																
<u>      </u> Dominance Test is >50%																																																																																																																																																																																
<u>      </u> Prevalence Index is ≤3.0 <sup>1</sup>																																																																																																																																																																																
<u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)																																																																																																																																																																																
<u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																																																																																																																																																																																
Hydrophytic Vegetation Present?																																																																																																																																																																																
Yes <u>      </u>	No <u>x</u>																																																																																																																																																																															
Remarks: The sample area does not support a predominance of hydrophytic vegetation.																																																																																																																																																																																



## SOIL

Sampling Point: VPHCP1758-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/3	100					loamy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
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Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____    No _____    Depth (inches): _____ Water Table Present?    Yes _____    No _____    Depth (inches): _____ Saturation Present?    Yes _____    No _____    Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/15/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPCHP2068-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 2  
 Subregion (LRR): C Lat: 32.55348 Long: -117.02269 Datum: NAD83  
 Soil Map Unit Name: Huerhuero loam, 2-9% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #VPCHP2068.	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
<u>      </u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>      </u> ) 1. <u>simmondsia chinensis</u> 10 N NI 2. <u>      </u> 3. <u>      </u> 4. <u>      </u> 5. <u>      </u> <u>      </u> = Total Cover				
<b>Herb Stratum</b> (Plot size: <u>      </u> ) 1. <u>Festuca perennis</u> 85 N FAC 2. <u>Hordeum murinum</u> 4 N FACU 3. <u>Bromus diandrus</u> 1 N FACU 4. <u>      </u> 5. <u>      </u> 6. <u>      </u> 7. <u>      </u> 8. <u>      </u> <u>      </u> = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>      </u> ) 1. <u>      </u> 2. <u>      </u> <u>      </u> = Total Cover				
% Bare Ground in Herb Stratum <u>      </u> % Cover of Biotic Crust <u>      </u>				

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: VPHCP2068-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 4/2	100					sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: <u>shovel refusal</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth (inches): <u>12</u>	

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No wetland hydrology indicators observed.



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Southwest Village Specific Plan Project City/County: San Diego Sampling Date: 6/27/23  
 Applicant/Owner: Tri Point Homes State: CA Sampling Point: VPHCP2337-U  
 Investigator(s): Andrew Smisek Section, Township, Range: Section 31, T18S R01W  
 Landform (hillslope, terrace, etc.): mesa Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): C Lat: 32.54806 Long: -117.01409 Datum: NAD83  
 Soil Map Unit Name: Olivenhain cobbly loam, 9-30% slopes NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No        (If no, explain in Remarks.)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? Are "Normal Circumstances" present? Yes x No         
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u>      </u>	Is the Sampled Area within a Wetland? Yes <u>      </u> No <u>x</u>
Hydric Soil Present? Yes <u>      </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u>      </u> No <u>x</u>	
Remarks: Paired sample point for feature #VPHCP2337	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		<b>Prevalence Index worksheet:</b> Total % Cover of: <u>      </u> Multiply by: <u>      </u> OBL species <u>      </u> x 1 = <u>      </u> FACW species <u>      </u> x 2 = <u>      </u> FAC species <u>      </u> x 3 = <u>      </u> FACU species <u>      </u> x 4 = <u>      </u> UPL species <u>      </u> x 5 = <u>      </u> Column Totals: <u>      </u> (A) <u>      </u> (B) Prevalence Index = B/A = <u>      </u>
Sapling/Shrub Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
3. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
4. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>      </u> = Total Cover		
Herb Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>x</u> Dominance Test is >50% <u>      </u> Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Festuca perennis</u>	<u>70</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Malvella leprosa</u>	<u>15</u>	<u>N</u>	<u>FACU</u>	
3. <u>Glebionis coronaria</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Avena sp</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
5. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
6. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
7. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
8. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>91</u> = Total Cover		
Woody Vine Stratum (Plot size: <u>      </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>x</u> No <u>      </u>
1. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
2. <u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	
		<u>91</u> = Total Cover		
% Bare Ground in Herb Stratum <u>      </u>	% Cover of Biotic Crust <u>      </u>			

Remarks: The sample area supports a predominance of hydrophytic vegetation.



## SOIL

Sampling Point: VPHCP2337-U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 4/3	100					sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Vernal Pools (F9)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <u>  x  </u>
--	--

Remarks: No hydric soil indicators observed.

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?    Yes _____ No _____ Depth (inches): _____ Water Table Present?      Yes _____ No _____ Depth (inches): _____ Saturation Present?        Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>  x  </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No wetland hydrology indicators observed.	



## ATTACHMENT 6

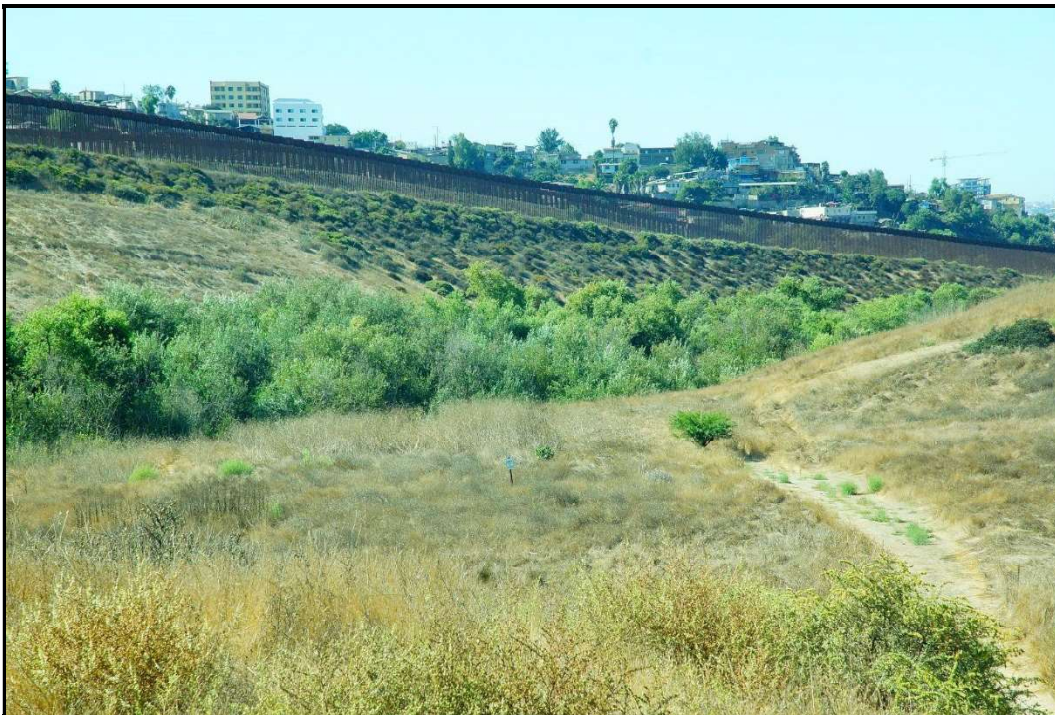
### Ground Level Color Photographs





PHOTOGRAPH 1

View of Mule Fat Scrub within Western Portion of Review Area, Facing West  
Photo Date: August 12, 2022



PHOTOGRAPH 2

View of Southern Willow Scrub in Southern Portion of Review Area, Facing South  
Photo Date: September 24, 2019





PHOTOGRAPH 3

View of Tamarisk Scrub along Edge of Large Pool in Southern Portion of  
Review Area, Facing Northeast  
Photo Date: July 22, 2020





PHOTOGRAPH 4

Close-Up View of Flowering-Quillwort (*Lilaea scilloides*), a Vernal Pool Plant Indicator Species, Surface Cracking, and Biotic Crusts in Vernal Pool #56  
Photo Date: April 6, 2018



PHOTOGRAPH 5

View of Dwarf Woollyheads (*Psilocarphus brevissimus*), a Vernal Pool Plant Indicator Species, in Vernal Pool #34, Facing Southeast  
Photo Date: April 6, 2018





## PHOTOGRAPH 6

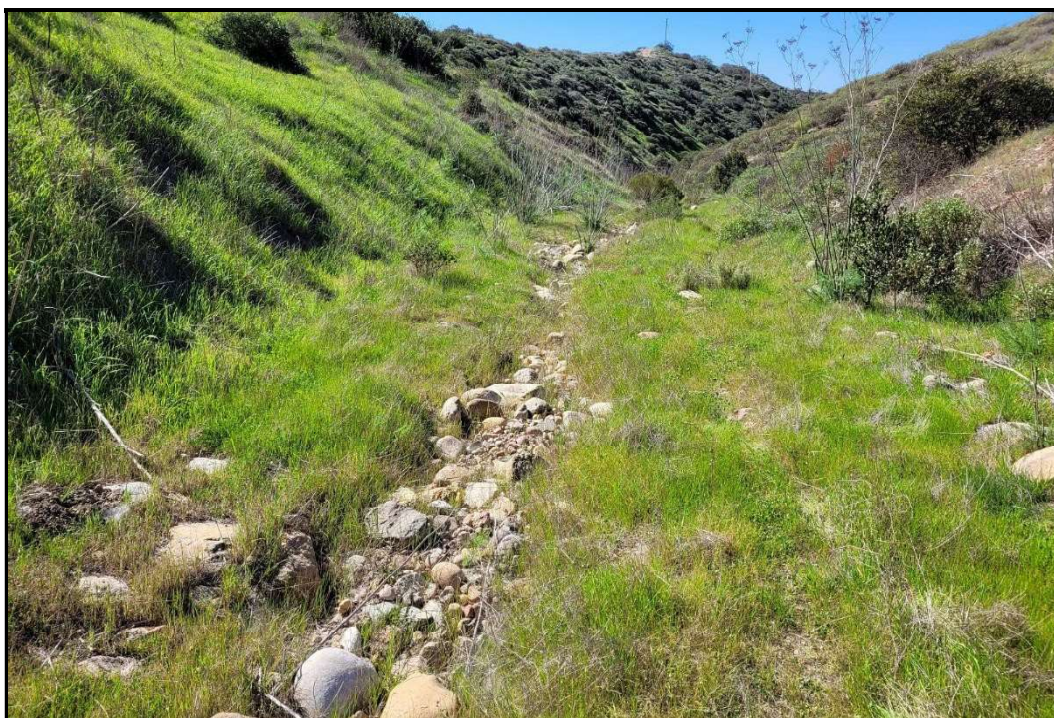
Close-Up View of Dwarf Woollyheads (*Psilocarphus brevissimus*) and Prairie Plantain (*Plantago elongata*), Vernal Pool Plant Indicator Species, in Vernal Pool #27 Photo Date: April 4, 2018





PHOTOGRAPH 7

Downward Facing View of Disturbed Wetland in Depression #278  
Dominated by Mediterranean Barley (*Hordeum marinum*) and Rye Grass  
(*Festuca perennis*); Photo Date: February 27, 2020



PHOTOGRAPH 8

View of Non-wetland Water Ephemeral Drainage N in Southern Portion of  
Review Area, Facing Southwest; Photo Date: February 9, 2022.





PHOTOGRAPH 9

View of Vernal Pool Wetland #68 within the Southern  
Portion of the Review Area, Looking East  
Photo Date: March 26, 2018





PHOTOGRAPH 10

View of Vernal Pool Wetland #235 within Southeastern  
Portion of Review Area, Looking East  
Photo Date: March 30, 2020





PHOTOGRAPH 11

View of Depleted Matrix Hydric Soils in Vernal Pool Wetland #393 within the North-central Portion of the Review Area, Facing West; Photo Date: May 4, 2023



PHOTOGRAPH 12

Downward Facing View of Redox Dark Surface Hydric Soils in Vernal Pool Wetland P-13/VPHCP1193 within the Eastern Portion of the Review Area  
Photo Date: May 11, 2023





PHOTOGRAPH 13

View of Disturbed Wetland #314 in Southern Portion of  
Review Area, Looking Northwest  
Photo Date: March 26, 2020





PHOTOGRAPH 14

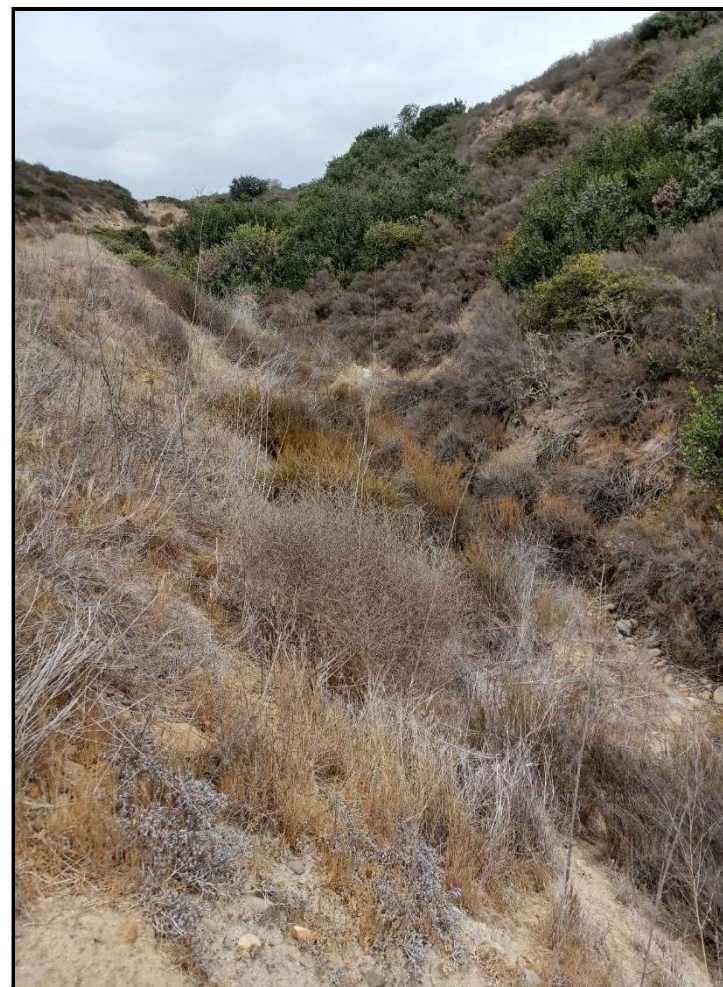
View of Non-wetland Water Ephemeral Drainage K in Southern Portion of  
Review Area, Facing Southwest; Photo Date: January 15, 2020





PHOTOGRAPH 15

View of Drainage A in Northern Portion of Review Area,  
Facing East; Photo Date: August 18, 2021



PHOTOGRAPH 16

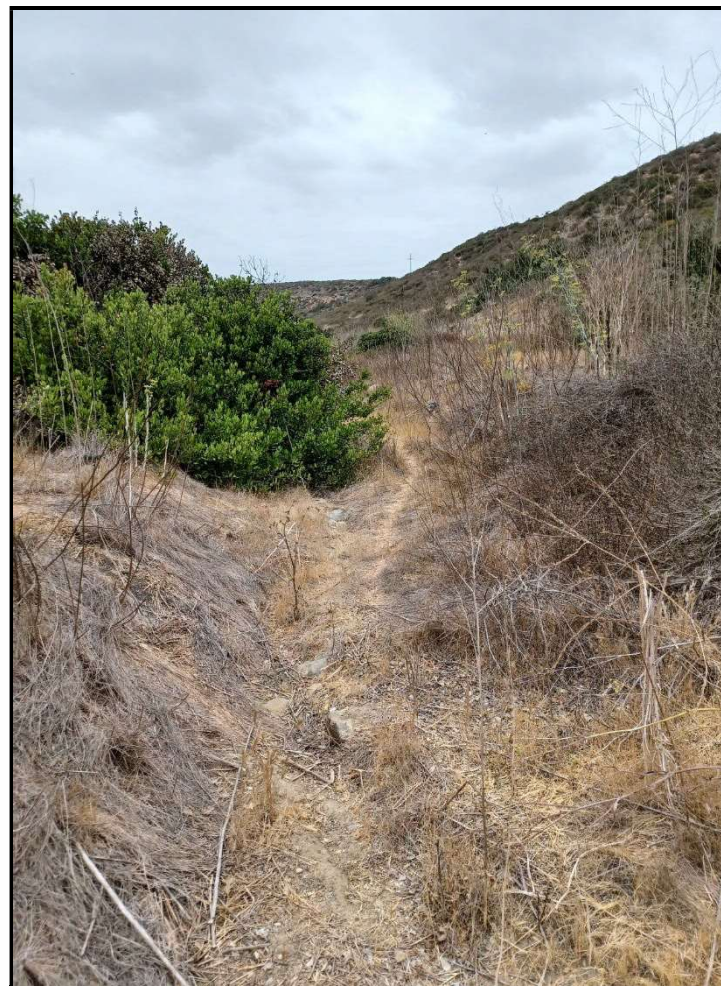
View of Drainage B(b) in Northern Portion of Review Area,  
Facing Northeast; Photo Date: August 18, 2021





PHOTOGRAPH 17

View of Drainage H in Southeastern Portion of Review Area,  
Facing Northeast; Photo Date: August 20, 2021



PHOTOGRAPH 18

View of Drainage B in Northern Portion of Review Area, Facing  
Southeast; Photo Date: August 18, 2021





PHOTOGRAPH 19

View of Drainage D in North-central Portion of Review Area,  
Facing South; Photo Date: August 18, 2021



PHOTOGRAPH 20

View of Drainage E in North-central Portion of Review Area,  
Facing South; Photo Date: August 18, 2021





PHOTOGRAPH 21

View of Drainage F in Northeastern Portion of Review Area,  
Facing East; Photo Date: August 20, 2021



PHOTOGRAPH 22

View of Drainage G(b) in Northeastern Portion of Review Area,  
Facing West; Photo Date: August 20, 2021





PHOTOGRAPH 23

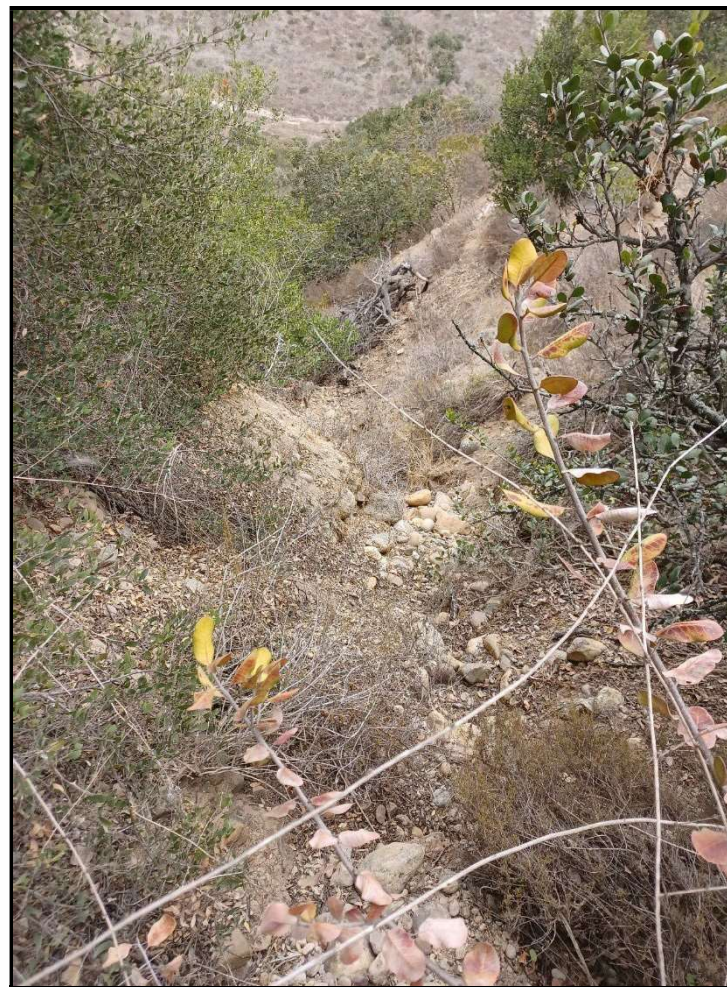
View of Drainage G and Adjacent Baccharis-dominated  
Floodplain in Northeastern Portion of Review Area,  
Facing Southeast; Photo Date: August 20, 2021





PHOTOGRAPH 24

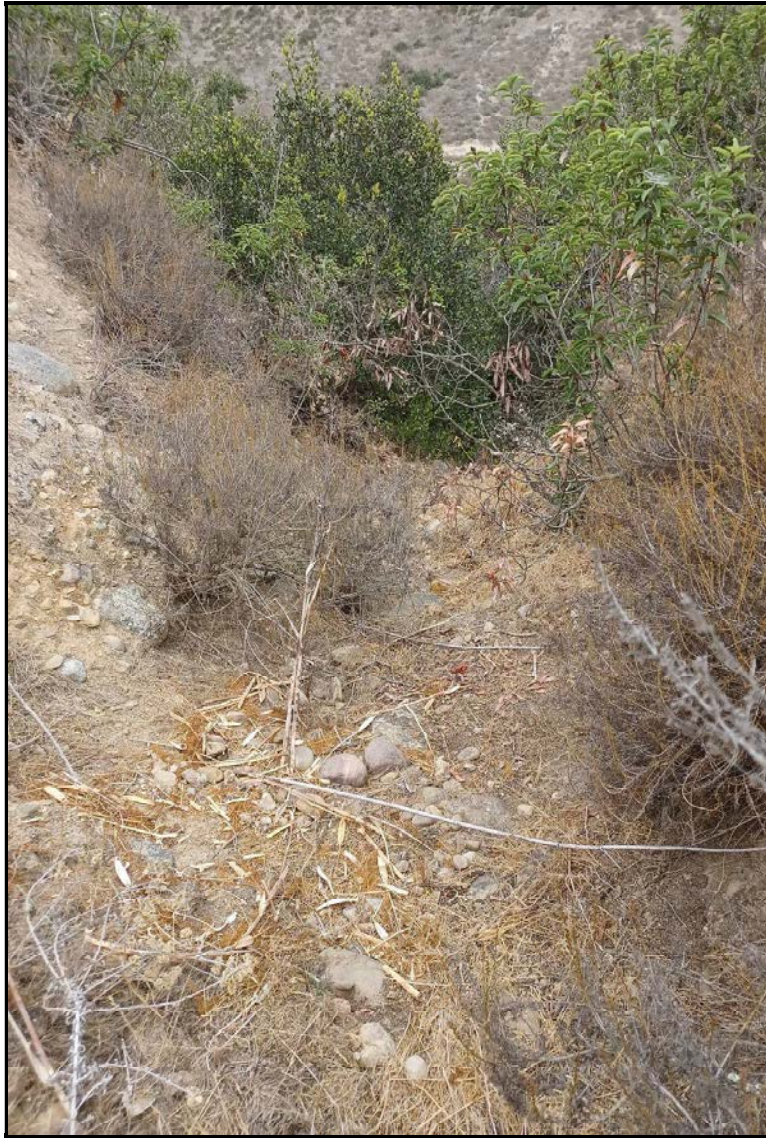
View of Drainage M in South-central Portion of Review Area,  
Facing Southwest; Photo Date: August 18, 2021



PHOTOGRAPH 25

View of Drainage P in Northern Portion of Review Area, Facing  
North; Photo Date: August 20, 2021





PHOTOGRAPH 26

View of Drainage Q in Northern Portion of Review Area,  
Facing North; Photo Date: August 20, 2021





PHOTOGRAPH 27

View of Vernal Pool Basin #73 in West-central Portion of Review Area, Facing North; Photo Date: March 26, 2018



## ATTACHMENT 7

### Ordinary High Water Mark Data Sheets



## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

**Project:** Southwest Village

**Project Number:** 8868

**Stream:** F; Point F-1

**Investigator(s):** B. Prosser, A. Leavitt

**Date:** Apr 14, 2020

**Town:** San Diego

**Photo begin file#:**

**Time:** 10:00 am

**State:** CA

**Photo end file#:**

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

**Location Details:**

32.55945, -117.01507

**Projection:**

**Coordinates:**

**Datum:**

NAD83

**Potential anthropogenic influences on the channel system:**

Trash dumping, soil disturbances upstream

**Brief site description:**

Start of canyon, along abandoned road cut.

**Checklist of resources (if available):**

☒ Aerial photography

Dates:

☒ Topographic maps

☐ Geologic maps

☐ Vegetation maps

☐ Soils maps

☐ Rainfall/precipitation maps

☐ Existing delineation(s) for site

☒ Global positioning system (GPS)

☐ Other studies

☐ Stream gage data

Gage number:

Period of record:

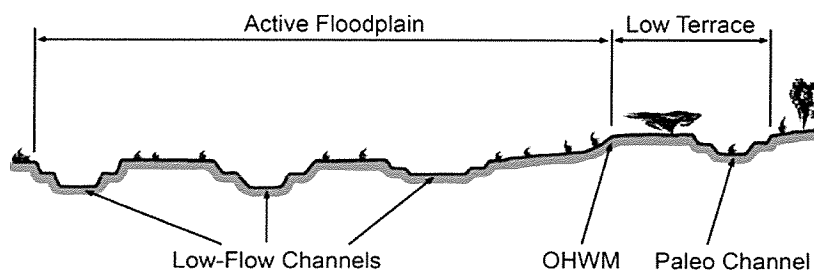
☐ History of recent effective discharges

☐ Results of flood frequency analysis

☐ Most recent shift-adjusted rating

☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

### Hydrogeomorphic Floodplain Units



**Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:**

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
  - a) Record the floodplain unit and GPS position.
  - b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
  - c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:

☐ Mapping on aerial photograph

☐ Digitized on computer

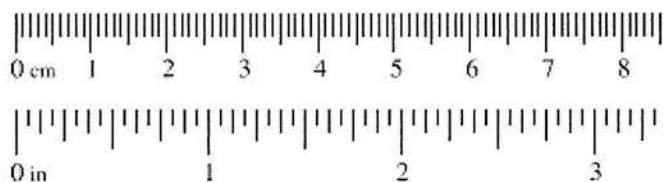
☒ GPS

☐ Other:



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	Gravel
2.56	64	Cobble	
0.157	4	Pebble	
		Granule	
0.079	2.00		Sand
0.039	1.00	Very coarse sand	
0.020	0.50	Coarse sand	
1/2 0.0098	0.25	Medium sand	
1/4 0.005	0.125	Fine sand	
1/8 0.0025	0.0625	Very fine sand	
1/16 0.0012	0.031	Coarse silt	Silt
1/32 0.00061	0.0156	Medium silt	
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	
		Clay	Mud

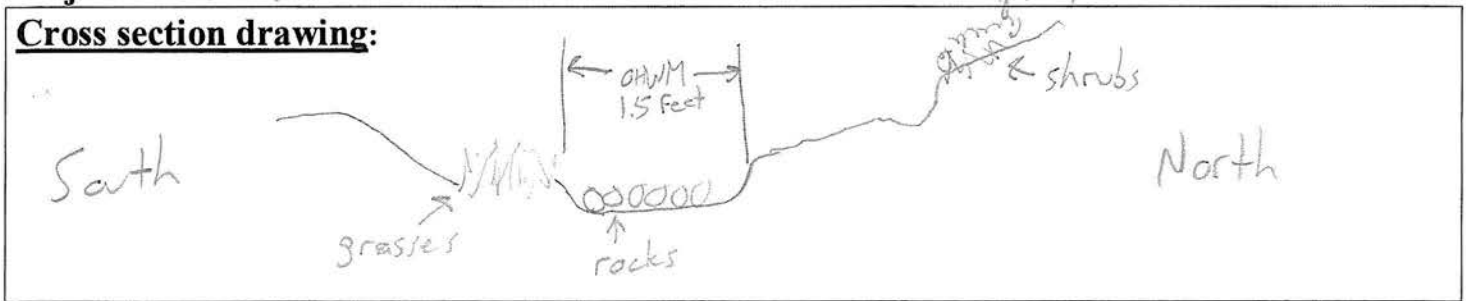




Project ID: 8868

Cross section ID: F-1

Date: April 14, 2020 Time: 10:00 am

**Cross section drawing:****OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture  
☐ Change in vegetation species  
☒ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

Unvegetated with mostly cobble and sand.  
~ 1.5 feet wide

**Floodplain unit:**☒ Low-Flow Channel☒ Active Floodplain☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**Average sediment texture: cobbleTotal veg cover: 0 % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- ☐ NA  
☐ Early (herbaceous & seedlings)  
☐ Mid (herbaceous, shrubs, saplings)  
☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☐ Ripples  
☒ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☒ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

Ephemeral stream.  
Defined by sediment transport and lack of vegetation.



Project ID: 8868

Cross section ID: F-1

Date: Apr. 14, 2020 Time: 10:00 am

**Floodplain unit:**☐ Low-Flow Channel☐ Active Floodplain☒ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: 15 % Tree: 0 % Shrub: 7 % Herb: 8 %

Community successional stage:

☐ NA☐ Early (herbaceous & seedlings)☒ Mid (herbaceous, shrubs, saplings)☐ Late (herbaceous, shrubs, mature trees)**Indicators:**☐ Mudcracks☐ Ripples☐ Drift and/or debris☐ Presence of bed and bank☐ Benches☒ Soil development☐ Surface relief☐ Other: \_\_\_\_\_☐ Other: \_\_\_\_\_☐ Other: \_\_\_\_\_**Comments:****Floodplain unit:**☐ Low-Flow Channel☐ Active Floodplain☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA☐ Early (herbaceous & seedlings)☐ Mid (herbaceous, shrubs, saplings)☐ Late (herbaceous, shrubs, mature trees)**Indicators:**☐ Mudcracks☐ Ripples☐ Drift and/or debris☐ Presence of bed and bank☐ Benches☐ Soil development☐ Surface relief☐ Other: \_\_\_\_\_☐ Other: \_\_\_\_\_☐ Other: \_\_\_\_\_**Comments:**



# Arid West Ephemeral and Intermittent Streams OHWM Datasheet

<b>Project:</b> Southwest Village <b>Project Number:</b> 8868 <b>Stream:</b> G(6); Point G(6)-1 <b>Investigator(s):</b> B. Prosser, J. Sundberg	<b>Date:</b> Dec 9, 2019 <b>Town:</b> San Diego <b>Photo begin file#:</b> <b>Time:</b> 9:15am <b>State:</b> CA <b>Photo end file#:</b>
--	---

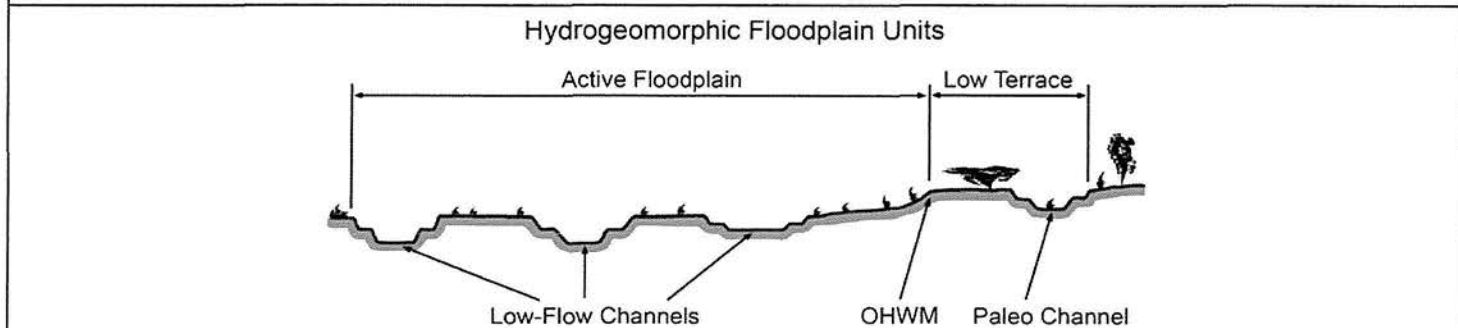
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?	<b>Location Details:</b> 32.55947, -117.01804 <b>Projection:</b> State Plane <b>Datum:</b> NAD83 <b>Coordinates:</b>
--	---

**Potential anthropogenic influences on the channel system:**  
 Trash dumping; soil disturbances upstream

**Brief site description:**  
 Start of canyon, along abandoned road cut

**Checklist of resources (if available):**

<input checked="" type="checkbox"/> Aerial photography Dates: <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input type="checkbox"/> Vegetation maps <input type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event
---	---



**Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:**

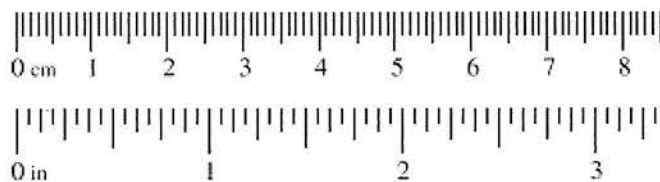
1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
  - a) Record the floodplain unit and GPS position.
  - b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
  - c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
 

<input type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS
<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.03	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
		Granule
0.079	2.00	
0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay

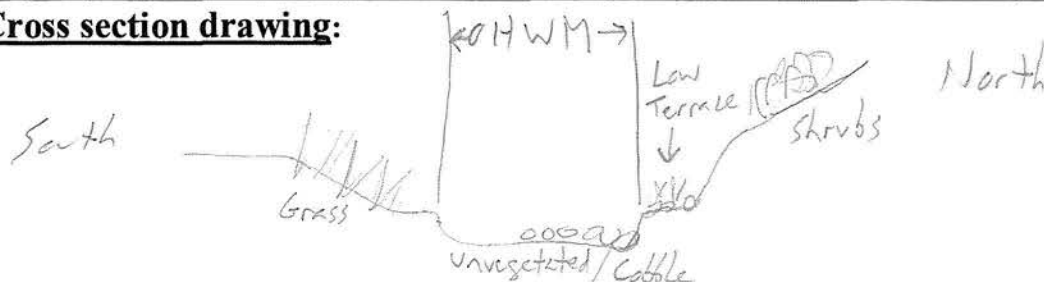




Project ID: 8868 Cross section ID: G(b)-1

Date: Dec. 9, 2019 Time: 9:15 am

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Change in average sediment texture | <input checked="" type="checkbox"/> Break in bank slope |
| <input type="checkbox"/> Change in vegetation species                  | <input type="checkbox"/> Other: _____                   |
| <input checked="" type="checkbox"/> Change in vegetation cover         | <input type="checkbox"/> Other: _____                   |

**Comments:**

Unvegetated with mostly cobble and some sand  
1.5 feet wide

**Floodplain unit:**

- ☒ Low-Flow Channel ☒ Active Floodplain ☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: cobble

Total veg cover: 0 % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> NA                  | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

**Indicators:**

- |  |  |
|--|--|
| <input type="checkbox"/> Mudcracks                           | <input type="checkbox"/> Soil development          |
| <input type="checkbox"/> Ripples                             | <input checked="" type="checkbox"/> Surface relief |
| <input checked="" type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____              |
| <input checked="" type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____              |
| <input type="checkbox"/> Benches                             | <input type="checkbox"/> Other: _____              |

**Comments:**

High order stream, ephemeral, defined sediment transport, and  
lack of vegetation



Project ID: 8868

Cross section ID: G(6)-1

Date: Dec. 9, 2019 Time: 9:15 am

**Floodplain unit:** ☐ Low-Flow Channel ☐ Active Floodplain ☒ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: silt

Total veg cover: 15 % Tree: 0 % Shrub: 7 % Herb: 8 %

Community successional stage:

- |   |  |
|---|--|
| <input type="checkbox"/> NA                             | <input checked="" type="checkbox"/> Mid (herbaceous, shrubs, saplings) |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees)       |

**Indicators:**

- |   |  |
|---|--|
| <input type="checkbox"/> Mudcracks                | <input checked="" type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                  | <input type="checkbox"/> Surface relief              |
| <input type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____                |
| <input type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____                |
| <input type="checkbox"/> Benches                  | <input type="checkbox"/> Other: _____                |

Comments:

**Floodplain unit:** ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- |   |  |
|---|--|
| <input type="checkbox"/> NA                             | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

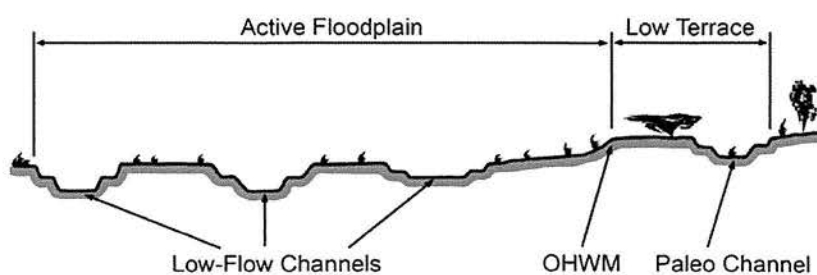
**Indicators:**

- |   |   |
|---|---|
| <input type="checkbox"/> Mudcracks                | <input type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                  | <input type="checkbox"/> Surface relief   |
| <input type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Benches                  | <input type="checkbox"/> Other: _____     |

Comments:



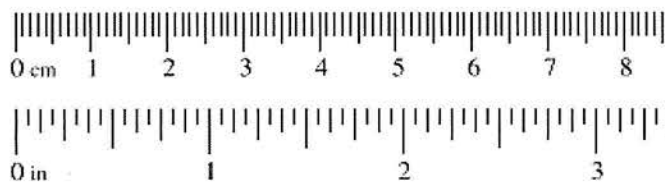
# Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> SWV <b>Project Number:</b> 88608 <b>Stream:</b> G-4 <b>Investigator(s):</b> EAP, AKS, JRS		<b>Date:</b> 10 Jun 20 <b>Town:</b> San Diego <b>Photo begin file#:</b> <b>Time:</b> 10:00 <b>State:</b> CA <b>Photo end file#:</b>			
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Is the site significantly disturbed?		<b>Location Details:</b> top of Spring Canyon <b>Projection:</b> State Plane <b>Datum:</b> NAD83 <b>Coordinates:</b> 32.559979, -117.017928			
<b>Potential anthropogenic influences on the channel system:</b> lots of trash in active channel & adjacent to it					
<b>Brief site description:</b> Canyon bottom, CSS on slopes, and no riparian veg					
<b>Checklist of resources (if available):</b> <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top; width: 50%;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input checked="" type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </td> <td style="vertical-align: top; width: 50%;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </td> </tr> </table>				<input checked="" type="checkbox"/> Aerial photography Dates: <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input checked="" type="checkbox"/> Vegetation maps <input checked="" type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event
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### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
		Granule
0.079	2.00	Very coarse sand
0.039	1.00	Coarse sand
0.020	0.50	Medium sand
1/2 0.0098	0.25	Fine sand
1/4 0.005	0.125	Very fine sand
1/8 0.0025	0.0625	
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay





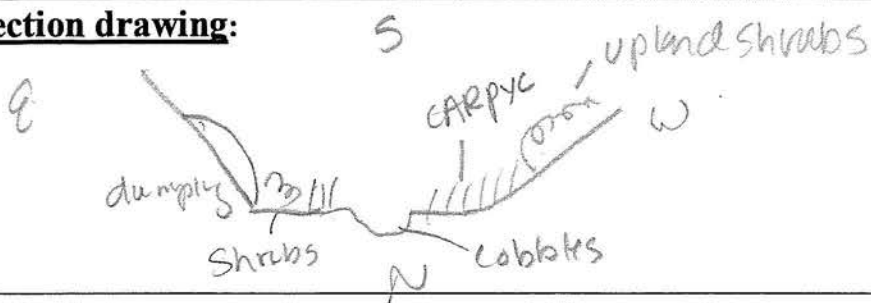
Project ID:

Cross section ID:

Date:

Time:

**Cross section drawing:**



width: 1-1 1/2  
depth: 6"

**OHWM**

GPS point: 1 pad 9

**Indicators:**

- ☒ Change in average sediment texture  
☒ Change in vegetation species  
☒ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

fire in stream

low flow ch = plain

slow, rocks exposed

**Floodplain unit:**

☒ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

GPS point: 1 pad 9

**Characteristics of the floodplain unit:**

Average sediment texture: sandy clay or loam

Total veg cover: 5 % Tree: 0 % Shrub: 0 % Herb: 5 %

Community successional stage:

- ☐ NA  
☒ Early (herbaceous & seedlings)

- ☐ Mid (herbaceous, shrubs, saplings)  
☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☐ Ripples  
☒ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☐ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

same as uplands but cobble exposed



Project ID:

Cross section ID:

Date:

Time:

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☒ Low Terrace

GPS point: \_\_\_\_\_

*Upland adj to it*

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 %

*CARPYG BRUMAD  
gnacai FESPA MYU  
MEHIMP*

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☒ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

*Organic s dev on surface*

Comments:

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

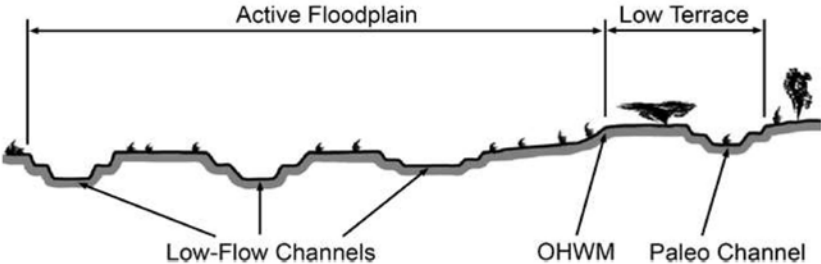
☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Comments:



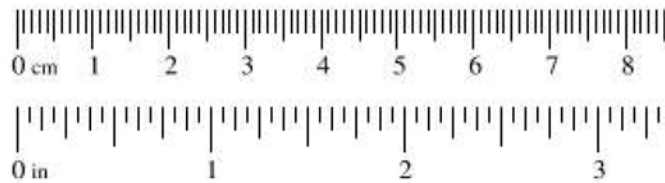
## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> SWV <b>Project Number:</b> 8868 <b>Stream:</b> G-5 <b>Investigator(s):</b> Andrew Smisek	<b>Date:</b> 17 January, 2024 <b>Time:</b> 1300 <b>Town:</b> San Diego <b>State:</b> CA <b>Photo begin file#:</b> <b>Photo end file#:</b>
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?	<b>Location Details:</b> downstream portion of Drainage G in Dillon Canyon  <b>Projection:</b> State Plane <b>Datum:</b> NAD83 <b>Coordinates:</b> 32.55898518, -117.01698434
<b>Potential anthropogenic influences on the channel system:</b> Lots of trash in active channel and surrounding canyon slopes.	
<b>Brief site description:</b> Canyon bottom supporting baccharis-dominated CSS within drainage floodplain and CSS on adjacent slopes dominated by ARTCAL and RHUINT.	
<b>Checklist of resources (if available):</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input checked="" type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </div> <div style="width: 45%;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </div> </div>	
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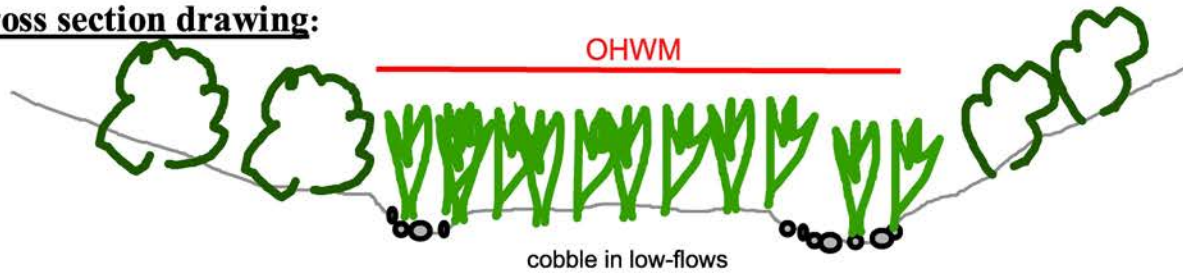


### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
0.079	2.00	Granule
0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay





**Cross section drawing:****OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture  
☒ Change in vegetation species  
☒ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

OHWM occurs at the outer edge of the low-flow channels, between which is a change in vegetation, a change in sediment texture, and other OHWM indicators. The OHWM occurs at a break in slope.

**Floodplain unit:**    ☒ Low-Flow Channel    ☐ Active Floodplain    ☐ Low Terrace

GPS point: \_\_\_\_\_ collected using sub-meter GPS

**Characteristics of the floodplain unit:**Average sediment texture: cobbleTotal veg cover: 40 %    Tree: 0 %    Shrub: 40 %    Herb: 0 %

Community successional stage:

- ☐ NA    ☒ Mid (herbaceous, shrubs, saplings)  
☐ Early (herbaceous & seedlings)    ☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks    ☐ Soil development  
☐ Ripples    ☐ Surface relief  
☒ Drift and/or debris    ☐ Other: \_\_\_\_\_  
☒ Presence of bed and bank    ☐ Other: \_\_\_\_\_  
☐ Benches    ☐ Other: \_\_\_\_\_

**Comments:**

Two low-flow channels run parallel to each other here, each containing obvious break in slope and mostly cobble within channel. Some sediment sorting/deposits and drift deposits observed.



Project ID: 8868

Cross section ID: G-5

Date: 17 Jan 2024 Time: 1300

**Floodplain unit:** ☐ Low-Flow Channel ☒ Active Floodplain ☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**Average sediment texture: cobble and sandy loamTotal veg cover: 80 % Tree: 0 % Shrub: 70 % Herb: 10 %

Community successional stage:

☐ NA☐ Early (herbaceous & seedlings)☒ Mid (herbaceous, shrubs, saplings)☐ Late (herbaceous, shrubs, mature trees)**Indicators:**☐ Mudcracks☐ Ripples☒ Drift and/or debris☒ Presence of bed and bank☐ Benches☐ Soil development☐ Surface relief☒ Other: change in vegetation☒ Other: change in sediment☐ Other: \_\_\_\_\_**Comments:**

Southern OHWM occurs at outer edge of southern low-flow channel and northern OHWM occurs at outer edge of northern low-flow channel. These low-flows and the area between comprise the active floodplain as the area between supports baccharis-dominated veg and sandy-loam soils. This is a change in veg and soil compared to areas outside the active floodplain, which support upland CSS species and developed loamy soil.

**Floodplain unit:** ☐ Low-Flow Channel ☐ Active Floodplain ☒ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: 70 % Tree: 0 % Shrub: 65 % Herb: 5 %

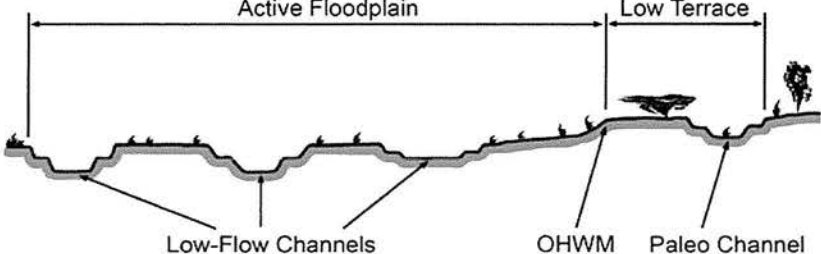
Community successional stage:

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Low terrace outside active floodplain supports mature CSS dominated by upland species, such as ARTCAL and RHUINT. This is a change in veg from the baccharis-dominated area within the active floodplain. The low terrace also supports developed loamy soil with no sand or sediment deposits.



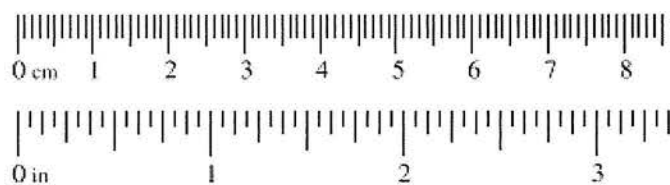
## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> <i>Southwest Village</i> <b>Project Number:</b> <i>8868</i> <b>Stream:</b> <i>H(6); Point H(6)-1</i> <b>Investigator(s):</b> <i>B. Prousal, J. Sundberg</i>	<b>Date:</b> <i>Feb. 13, 2020</i> <b>Town:</b> <i>San Diego</i> <b>Photo begin file#:</b> <b>Time:</b> <i>12:30pm</i> <b>State:</b> <i>CA</i> <b>Photo end file#:</b>				
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Is the site significantly disturbed?	<b>Location Details:</b> <i>32.55397, -117.01307</i>  <b>Projection:</b> <i>State Plane</i> <b>Datum:</b> <i>NAD83</i> <b>Coordinates:</b>				
<b>Potential anthropogenic influences on the channel system:</b> <i>Historic dumping; heaps of trash nearby.</i>					
<b>Brief site description:</b> <i>steep stream channel off the mesa</i>					
<b>Checklist of resources (if available):</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </td> </tr> </table>		<input checked="" type="checkbox"/> Aerial photography Dates: <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input type="checkbox"/> Vegetation maps <input checked="" type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event		
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<input checked="" type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS				
<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:				



### Wentworth Size Classes

Inches (in)		Millimeters (mm)		Wentworth size class	
	10.08	—	— — 256	Boulder	Gravel
	2.56	—	— — 64	Cobble	
	0.157	—	— — 4	Pebble	
				Granule	
	0.079	—	— — 2.00		Sand
	0.039	—	— — 1.00	Very coarse sand	
	0.020	—	— — 0.50	Coarse sand	
1/2	0.0098	—	— — 0.25	Medium sand	
1/4	0.005	—	— — 0.125	Fine sand	
1/8	0.0025	—	— — 0.0625	Very fine sand	
1/16	0.0012	—	— — 0.031	Coarse silt	Silt
1/32	0.00061	—	— — 0.0156	Medium silt	
1/64	0.00031	—	— — 0.0078	Fine silt	
1/128	0.00015	—	— — 0.0039	Very fine silt	
				Clay	Mud





Project ID: 8868

Cross section ID: H(6)-1

Date: Feb. 13, 2020 Time: 12:30 pm

**Cross section drawing:****OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture  
☒ Change in vegetation species  
☒ Change in vegetation cover

- ☒ Break in bank slope  
☒ Other: Drift deposits  
☐ Other: \_\_\_\_\_

**Comments:**

Clearly defined; contains low-flow and active floodplain.  
Big cobbles.

**Floodplain unit:**☒ Low-Flow Channel☒ Active Floodplain☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**Average sediment texture: cobbleTotal veg cover: 0 % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- ☒ NA  
☐ Early (herbaceous & seedlings)

- ☐ Mid (herbaceous, shrubs, saplings)  
☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☐ Ripples  
☒ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☒ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

sharply defined floodplain on steep part of slope; likely rapid high-flow drainage.



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

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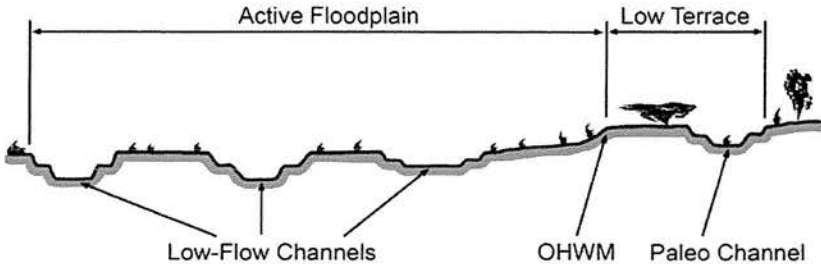
☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**



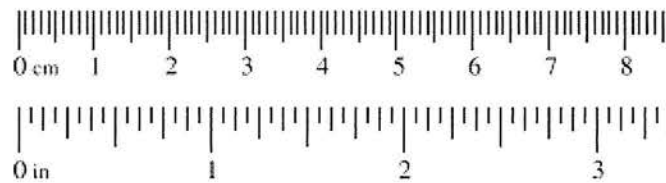
## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> Southwest Village <b>Project Number:</b> 8868 <b>Stream:</b> H's Point H-1 <b>Investigator(s):</b> B. Prosser, J. Sundberg	<b>Date:</b> Dec. 9, 2019 <b>Town:</b> San Diego <b>Photo begin file#:</b> <b>Time:</b> 10:30 am <b>State:</b> CA <b>Photo end file#:</b>				
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?	<b>Location Details:</b> 32.55224, -117.01529  <b>Projection:</b> State Plane <b>Datum:</b> NAD83 <b>Coordinates:</b>				
<b>Potential anthropogenic influences on the channel system:</b> Dumping					
<b>Brief site description:</b>					
<b>Checklist of resources (if available):</b> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </td> </tr> </table>		<input checked="" type="checkbox"/> Aerial photography Dates: <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input type="checkbox"/> Vegetation maps <input checked="" type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event		
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<b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:</b> <ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHWM and record the indicators. Record the OHWM position via:           <table style="width: 100%;"> <tr> <td><input checked="" type="checkbox"/> Mapping on aerial photograph</td> <td><input checked="" type="checkbox"/> GPS</td> </tr> <tr> <td><input type="checkbox"/> Digitized on computer</td> <td><input type="checkbox"/> Other:</td> </tr> </table> </li> </ol>		<input checked="" type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS	<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS				
<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:				



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	Gravel
2.56	64	Cobble	
0.157	4	Pebble	
		Granule	
0.079	2.00		Sand
0.039	1.00	Very coarse sand	
0.020	0.50	Coarse sand	
1/2 0.0098	0.25	Medium sand	
1/4 0.005	0.125	Fine sand	
1/8 0.0025	0.0625	Very fine sand	
1/16 0.0012	0.031	Coarse silt	Silt
1/32 0.00061	0.0156	Medium silt	
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	
		Clay	Mud





Project ID: 8868

Cross section ID: H-1

Date: Dec. 9, 2019 Time: 10:30am

**Cross section drawing:****OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture  
☐ Change in vegetation species  
☒ Change in vegetation cover

- ☐ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

Distinct due to change in slope, vegetation, and sediment size.  
3-4 feet wide

**Floodplain unit:**☒ Low-Flow Channel☒ Active Floodplain☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**Average sediment texture: cobble/boulderTotal veg cover: 1 % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: 1 % (weedy herbaceous)

Community successional stage:

- ☐ NA  
☐ Early (herbaceous & seedlings)  
☐ Mid (herbaceous, shrubs, saplings)  
☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☐ Ripples  
☒ Drift and/or debris  
☒ Presence of bed and bank  
☒ Benches

- ☐ Soil development  
☐ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

Very coarse sediment; has flowing water currently



Project ID: 8865 Cross section ID: 14-1 Date: Dec 9 2010 Time: 11:30am

**Floodplain unit:** ☐ Low-Flow Channel ☐ Active Floodplain ☒ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: fine silt

Total veg cover: 10 % Tree: 0 % Shrub: 0 % Herb: 10 %

Community successional stage:

- |  |  |
|--|--|
| <input type="checkbox"/> NA  | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input checked="" type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

**Indicators:**

- |   |  |
|---|--|
| <input type="checkbox"/> Mudcracks                | <input checked="" type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                  | <input type="checkbox"/> Surface relief              |
| <input type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____                |
| <input type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____                |
| <input type="checkbox"/> Benches                  | <input type="checkbox"/> Other: _____                |

**Comments:**

*Capped in silt over cobble and gravel.  
ward. have mature shrubs.  
At head of canyon*

**Floodplain unit:** ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- |   |  |
|---|--|
| <input type="checkbox"/> NA                             | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

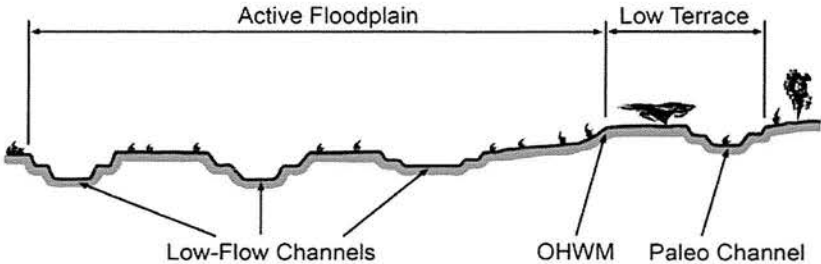
**Indicators:**

- |   |   |
|---|---|
| <input type="checkbox"/> Mudcracks                | <input type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                  | <input type="checkbox"/> Surface relief   |
| <input type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Benches                  | <input type="checkbox"/> Other: _____     |

**Comments:**



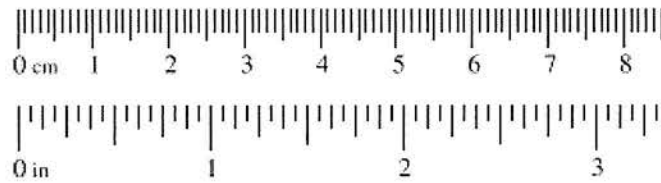
## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> <i>Southwest Village</i> <b>Project Number:</b> <i>8868</i> <b>Stream:</b> <i>I; Point I-1</i> <b>Investigator(s):</b> <i>B. Prosser, G. Scheid</i>	<b>Date:</b> <i>Jan. 14, 2020</i> <b>Time:</b> <i>11:10 am</i> <b>Town:</b> <i>San Diego</i> <b>State:</b> <i>CA</i> <b>Photo begin file#:</b> <b>Photo end file#:</b>				
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?	<b>Location Details:</b> <i>32.55173, -117.02438</i> <b>Projection:</b> <i>State Plane</i> <b>Datum:</b> <i>NAD 83</i> <b>Coordinates:</b>				
<b>Potential anthropogenic influences on the channel system:</b> <i>None</i>					
<b>Brief site description:</b> <i>Upper reach of ephemeral drainage near starting knick point.</i>					
<b>Checklist of resources (if available):</b> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input checked="" type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </td> </tr> </table>		<input checked="" type="checkbox"/> Aerial photography Dates: <input type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input checked="" type="checkbox"/> Vegetation maps <input checked="" type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event		
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<input checked="" type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS				
<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:				



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	Gravel
2.56	64	Cobble	
0.157	4	Pebble	
		Granule	
0.079	2.00		Sand
0.039	1.00	Very coarse sand	
0.020	0.50	Coarse sand	
1/2 0.0098	0.25	Medium sand	
1/4 0.005	0.125	Fine sand	
1/8 0.0025	0.0625	Very fine sand	
1/16 0.0012	0.031	Coarse silt	Silt
1/32 0.00061	0.0156	Medium silt	
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	
		Clay	Mud

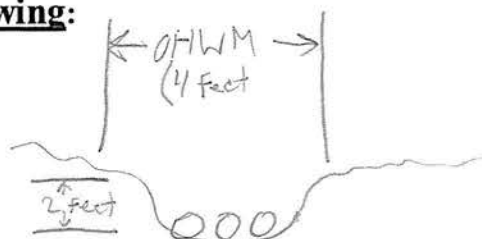




Project ID: 8868

Cross section ID: I-1

Date: Jan. 14, 2020 Time: 11:10 am

**Cross section drawing:****OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture  
☒ Change in vegetation species  
☒ Change in vegetation cover

- ☐ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

OHWM defined by distinct bed and bank.  
 Active Floodplain = low-flow channel.

**Floodplain unit:**☒ Low-Flow Channel☐ Active Floodplain☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**Average sediment texture: sand/cobbleTotal veg cover: 2 % Tree: 0 % Shrub: 0 % Herb: 2 %

Community successional stage:

- ☒ NA  
☐ Early (herbaceous & seedlings)

- ☐ Mid (herbaceous, shrubs, saplings)  
☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☐ Ripples  
☒ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☐ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

Distinct low-flow channels. Channel bottom down to cobble and sand.  
 fine materials few.

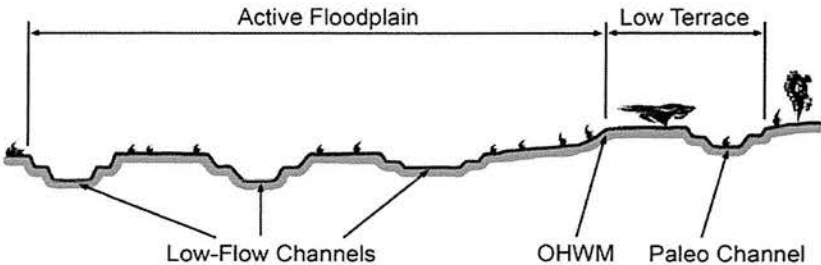


<b>Project ID:</b>	<b>Cross section ID:</b>	<b>Date:</b>	<b>Time:</b>
<b><u>Floodplain unit:</u></b> <input type="checkbox"/> Low-Flow Channel <input type="checkbox"/> Active Floodplain <input type="checkbox"/> Low Terrace			
GPS point: _____			
<b>Characteristics of the floodplain unit:</b>			
Average sediment texture: _____			
Total veg cover: _____ %    Tree: _____ %    Shrub: _____ %    Herb: _____ %			
Community successional stage:			
<input type="checkbox"/> NA		<input type="checkbox"/> Mid (herbaceous, shrubs, saplings)	
<input type="checkbox"/> Early (herbaceous & seedlings)		<input type="checkbox"/> Late (herbaceous, shrubs, mature trees)	
<b>Indicators:</b>			
<input type="checkbox"/> Mudcracks		<input type="checkbox"/> Soil development	
<input type="checkbox"/> Ripples		<input type="checkbox"/> Surface relief	
<input type="checkbox"/> Drift and/or debris		<input type="checkbox"/> Other: _____	
<input type="checkbox"/> Presence of bed and bank		<input type="checkbox"/> Other: _____	
<input type="checkbox"/> Benches		<input type="checkbox"/> Other: _____	
Comments:			

<b><u>Floodplain unit:</u></b>	<input type="checkbox"/> Low-Flow Channel	<input type="checkbox"/> Active Floodplain	<input type="checkbox"/> Low Terrace
GPS point: _____			
<b>Characteristics of the floodplain unit:</b>			
Average sediment texture: _____			
Total veg cover: _____ %    Tree: _____ %    Shrub: _____ %    Herb: _____ %			
Community successional stage:			
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<input type="checkbox"/> Benches		<input type="checkbox"/> Other: _____	
Comments:			



## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> Southwest Village <b>Project Number:</b> 8868 <b>Stream:</b> K; Point K-1 (1 Foot deep at knick point) <b>Investigator(s):</b> B. Prosser, G. Scheid		<b>Date:</b> Jan. 14, 2020 <b>Town:</b> San Diego <b>Photo begin file#:</b> <b>Photo end file#:</b>		<b>Time:</b> 11:50 am <b>State:</b> CA <b>Photo end file#:</b>					
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?		<b>Location Details:</b> 32.55452, -117.02608 <b>Projection:</b> State Plane <b>Datum:</b> NAD 83 <b>Coordinates:</b>							
<b>Potential anthropogenic influences on the channel system:</b> None									
<b>Brief site description:</b> Upper reach of ephemeral drainage near mesa top Two knick points: K and K(b)									
<b>Checklist of resources (if available):</b> <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top; width: 50%;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input checked="" type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </td> <td style="vertical-align: top; width: 50%;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </td> </tr> </table>						<input checked="" type="checkbox"/> Aerial photography Dates: <input type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input checked="" type="checkbox"/> Vegetation maps <input checked="" type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event		
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<input checked="" type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS								
<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:								



### Wentworth Size Classes

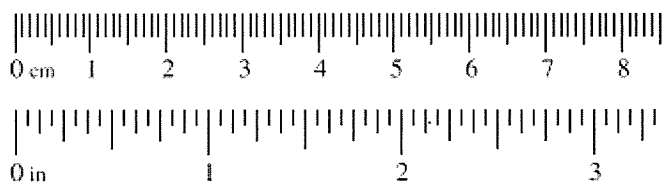
Inches (in)	Millimeters (mm)	Wentworth size class
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0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay

Gravel

Sand

Silt

Mud

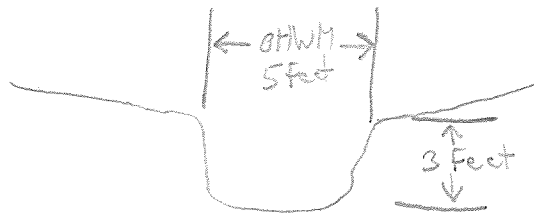




Project ID: 8868 Cross section ID: K-1

Date: Jan. 14, 2020 Time: 11:50 am

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture  
☐ Change in vegetation species  
☐ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

OHWM defined by distinct bed and bank.  
steep-sided banks created as erosion progressed.  
Active Floodplain = low-Flow channel

**Floodplain unit:**

☒ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: silt/cobble

Total veg cover: 60 % Tree: 0 % Shrub: 50 % Herb: 10 %

Community successional stage:

- ☐ NA ☐ Mid (herbaceous, shrubs, saplings)  
☐ Early (herbaceous & seedlings) ☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☐ Ripples  
☒ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☐ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

Ephemeral drainage with chaparral near mesa top where  
knee point occurs.  
Silt and cobble dominate channel bottom near top; more  
cobble/sand farther downslope.



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**



## Arid West Ephemeral and Intermittent Streams OHWM Datasheet

**Project:** Southwest Village

**Date:** Jan 19, 2020

**Time:** 1:15pm

**Project Number:** 8868

**Town:** San Diego

**State:** CA

**Stream:** M; Point M-1

**Photo begin file#:**

**Photo end file#:**

**Investigator(s):** B. Prosser, G. Scheid

Y ☒ / N ☐ Do normal circumstances exist on the site?

**Location Details:**

32.55126, -117.01965

Y ☐ / N ☒ Is the site significantly disturbed?

**Projection:**

State Plane

**Datum:**

NAD83

**Coordinates:**

**Potential anthropogenic influences on the channel system:**

Some trash debris, but not excessive.

**Brief site description:**

Upper reach of ephemeral drainage that traverses grassland and chaparral.

**Checklist of resources (if available):**

☒ Aerial photography

Dates:

☐ Topographic maps

☐ Geologic maps

☒ Vegetation maps

☒ Soils maps

☐ Rainfall/precipitation maps

☐ Existing delineation(s) for site

☒ Global positioning system (GPS)

☐ Other studies

☐ Stream gage data

Gage number:

Period of record:

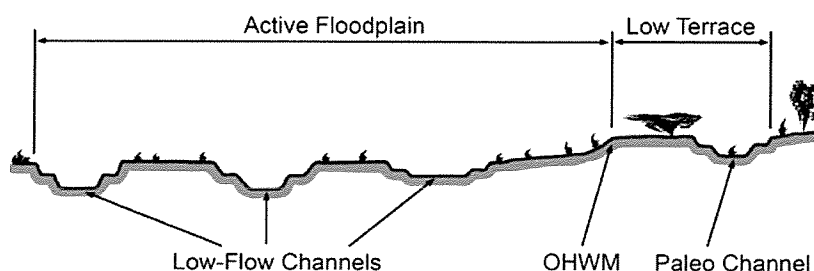
☐ History of recent effective discharges

☐ Results of flood frequency analysis

☐ Most recent shift-adjusted rating

☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units



**Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:**

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
  - a) Record the floodplain unit and GPS position.
  - b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
  - c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:

☒ Mapping on aerial photograph

☒ GPS

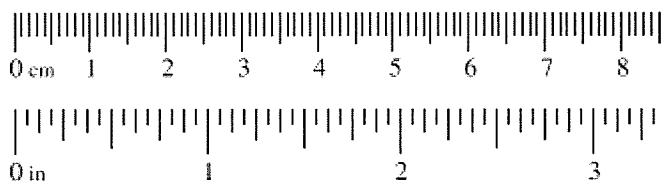
☐ Digitized on computer

☐ Other:



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
0.079	2.00	Granule
0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay

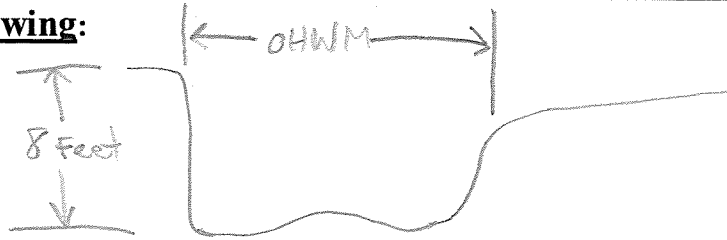




Project ID: 8568

Cross section ID: 14-1

Date: Jan. 14, 2020 Time: 1:15pm

**Cross section drawing:****OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Change in average sediment texture | <input checked="" type="checkbox"/> Break in bank slope |
| <input checked="" type="checkbox"/> Change in vegetation species       | <input type="checkbox"/> Other: _____                   |
| <input checked="" type="checkbox"/> Change in vegetation cover         | <input type="checkbox"/> Other: _____                   |

**Comments:**

OHWM defined by distinct bed and bank.  
 Steep-sided banks present.  
 Vegetation none to herbaceous in channel bottom.

**Floodplain unit:**☒ Low-Flow Channel☐ Active Floodplain☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**Average sediment texture: sandy silt/cobbleTotal veg cover: 15 % Tree: 0 % Shrub: 5 % Herb: 10 %

Community successional stage:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> NA                  | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

**Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Mudcracks                           | <input type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                             | <input type="checkbox"/> Surface relief   |
| <input checked="" type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____     |
| <input checked="" type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Benches                             | <input type="checkbox"/> Other: _____     |

**Comments:**

Ephemeral drainage near top by knick point.  
 Channel bottom mostly sand and cobble, but some silt present.



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**



## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

**Project:** Southwest Village  
**Project Number:** 8868  
**Stream:** M. Point M-2  
**Investigator(s):** B. Prosser, G. Scheid

**Date:** Jan 14, 2020  
**Town:** San Diego  
**State:** CA  
**Photo begin file#:**  
**Photo end file#:**

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

### Location Details:

32.55053, -117.02061

**Projection:**

**Coordinates:**

**Datum:**

NAD83

### Potential anthropogenic influences on the channel system:

None

### Brief site description:

M. d. reach of ephemeral drainage. Traverses through chaparral. Drainage becomes

### Checklist of resources (if available):

☒ Aerial photography

Dates:

☐ Topographic maps

☐ Geologic maps

☒ Vegetation maps

☒ Soils maps

☐ Rainfall/precipitation maps

☐ Existing delineation(s) for site

☒ Global positioning system (GPS)

☐ Other studies

☐ Stream gage data

Gage number:

Period of record:

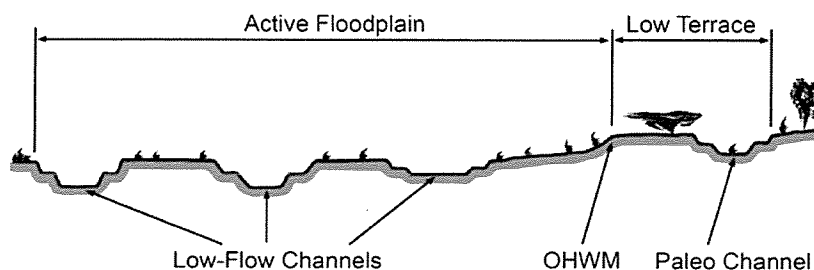
☐ History of recent effective discharges

☐ Results of flood frequency analysis

☐ Most recent shift-adjusted rating

☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

### Hydrogeomorphic Floodplain Units



### Procedure for identifying and characterizing the floodplain units to assist in identifying the OHW M:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
  - a) Record the floodplain unit and GPS position.
  - b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
  - c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHW M and record the indicators. Record the OHW M position via:

☒ Mapping on aerial photograph

☐ Digitized on computer

☒ GPS

☐ Other:



### Wentworth Size Classes

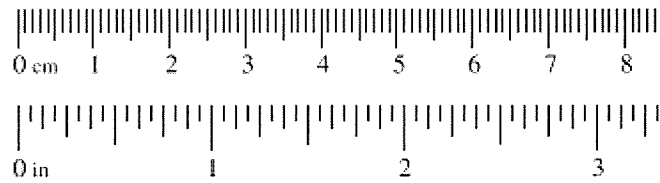
Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
		Granule
0.079	2.00	
0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay

Gravel

Sand

Silt

Mud





Project ID: 8868 Cross section ID: M-2 Date: Jan 14, 2020 Time: 1:45 pm

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Change in average sediment texture      | <input checked="" type="checkbox"/> Break in bank slope |
| <input checked="" type="checkbox"/> Change in vegetation species | <input type="checkbox"/> Other: _____                   |
| <input checked="" type="checkbox"/> Change in vegetation cover   | <input type="checkbox"/> Other: _____                   |

**Comments:**

OHWM defined by distinct bed and bank.  
Vegetation in channel bottom primarily grasses with shrubs  
on upper banks  
Active floodplain = Low-Flow

**Floodplain unit:** ☒ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: silt and cobble

Total veg cover: 80 % Tree: 0 % Shrub: 10 % Herb: 70 %

Community successional stage:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> NA                  | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

**Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Mudcracks                           | <input type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                             | <input type="checkbox"/> Surface relief   |
| <input checked="" type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____     |
| <input checked="" type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Benches                             | <input type="checkbox"/> Other: _____     |

**Comments:**

Mid-channel of ephemeral drainage.  
Channel bottom cobbly and vegetated (grasses).



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**



## Arid West Ephemeral and Intermittent Streams OHWM Datasheet

<b>Project:</b> Southwest Village <b>Project Number:</b> 8868 <b>Stream:</b> N. Point N-1 <b>Investigator(s):</b> B. Prosser, G. Scheid	<b>Date:</b> Jan 14, 2020 <b>Town:</b> San Diego <b>Photo begin file#:</b> <b>Time:</b> 1:52 pm <b>State:</b> CA <b>Photo end file#:</b>
--	---

Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?	<b>Location Details:</b> 32.54955, -117.02182  <b>Projection:</b> State Plane <b>Datum:</b> NAD83 <b>Coordinates:</b>
--	---

**Potential anthropogenic influences on the channel system:**

None

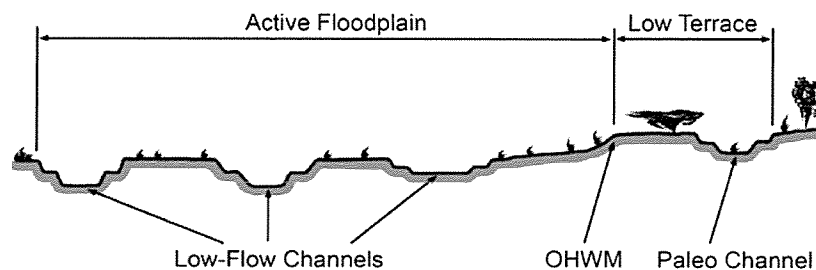
**Brief site description:**

Lower reach of tributary drainage to Stream M, near confluence.

**Checklist of resources (if available):**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Aerial photography<br>Dates:<br><input type="checkbox"/> Topographic maps<br><input type="checkbox"/> Geologic maps<br><input checked="" type="checkbox"/> Vegetation maps<br><input checked="" type="checkbox"/> Soils maps<br><input type="checkbox"/> Rainfall/precipitation maps<br><input type="checkbox"/> Existing delineation(s) for site<br><input checked="" type="checkbox"/> Global positioning system (GPS)<br><input type="checkbox"/> Other studies | <input type="checkbox"/> Stream gage data<br>Gage number:<br>Period of record:<br><input type="checkbox"/> History of recent effective discharges<br><input type="checkbox"/> Results of flood frequency analysis<br><input type="checkbox"/> Most recent shift-adjusted rating<br><input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event |
|--|---|

**Hydrogeomorphic Floodplain Units**



**Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:**

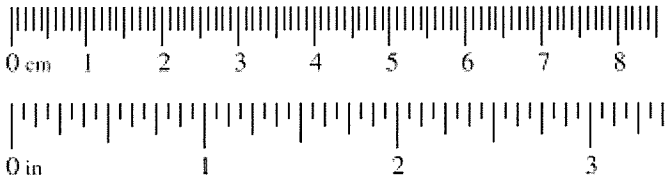
1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
  - a) Record the floodplain unit and GPS position.
  - b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
  - c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Mapping on aerial photograph | <input checked="" type="checkbox"/> GPS |
| <input type="checkbox"/> Digitized on computer                   | <input type="checkbox"/> Other:         |



# Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
0.079	2.00	Granule
0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay





Project ID: 8868 Cross section ID: N-1 Date: Jan 14, 2020 Time: 1:52pm

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Change in average sediment texture | <input type="checkbox"/> Break in bank slope |
| <input checked="" type="checkbox"/> Change in vegetation species       | <input type="checkbox"/> Other: _____        |
| <input checked="" type="checkbox"/> Change in vegetation cover         | <input type="checkbox"/> Other: _____        |

**Comments:**

OHWM defined by distinct bed and bank.  
Shallow drainage with little to no vegetation in channel bottom  
Active Floodplain = Low flow channel

**Floodplain unit:** ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: silt and cobble

Total veg cover: 10 % Tree: 0 % Shrub: 0 % Herb: 10 %

Community successional stage:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> NA                  | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

**Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Mudcracks                           | <input type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                             | <input type="checkbox"/> Surface relief   |
| <input checked="" type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____     |
| <input checked="" type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Benches                             | <input type="checkbox"/> Other: _____     |

**Comments:**

Channel bottom mostly cobble with silt. Some grass vegetation  
Shallow and narrow drainage. Ephemeral.



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**



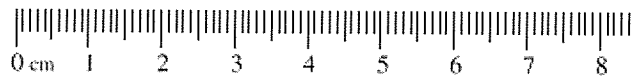
## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> Southwest Village <b>Project Number:</b> 8868-1 <b>Stream:</b> N26 in mitigation lands <b>Investigator(s):</b> G. Scheel; B. Prosser		<b>Date:</b> 3/17/21 <b>Town:</b> San Diego <b>Photo begin file#:</b> <b>Time:</b> 11:30 Am <b>State:</b> CA <b>Photo end file#:</b>	
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?		<b>Location Details:</b> Ephemeral stream within mitigation lands <b>Projection:</b> State Plane <b>Datum:</b> NAD83 <b>Coordinates:</b> 32.547717, -117.023512	
<b>Potential anthropogenic influences on the channel system:</b> None			
<b>Brief site description:</b> Upland vegetated ephemeral stream channel that drains southward off site into the Tijuana River.			
<b>Checklist of resources (if available):</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input checked="" type="checkbox"/> Aerial photography            Dates: 2021  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input checked="" type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </div> <div style="width: 48%;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </div> </div>			
<b>Hydrogeomorphic Floodplain Units</b> 			
<b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:</b> <ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHWM and record the indicators. Record the OHWM position via:           <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <input type="checkbox"/> Mapping on aerial photograph  <input type="checkbox"/> Digitized on computer           </div> <div> <input type="checkbox"/> GPS  <input type="checkbox"/> Other:           </div> </div> </li> </ol>			



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	Gravel
2.56	64	Cobble	
0.157	4	Pebble	
0.079	2.00	Granule	
0.039	1.00	Very coarse sand	Sand
0.020	0.50	Coarse sand	
1/2 0.0098	0.25	Medium sand	
1/4 0.005	0.125	Fine sand	
1/8 0.0025	0.0625	Very fine sand	
1/16 0.0012	0.031	Coarse silt	Silt
1/32 0.00061	0.0156	Medium silt	
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	
		Clay	Mud



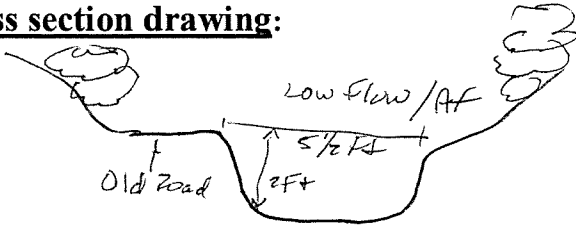


Project ID: BBB-1 N Cross section ID: N

Date: 3/17/21

Time: 11:22 AM

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture
- ☒ Change in vegetation species
- ☒ Change in vegetation cover

- ☒ Break in bank slope
- ☐ Other: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

**Comments:**

*Low flow channel & active floodplain devoid of vegetation.  
Adjacent upland areas vegetated with grassland & chaparral.*

**Floodplain unit:**

☒ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: cobble/sand

Total veg cover: 5 % Tree: 0 % Shrub: 0 % Herb: 5 %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☒ Presence of bed and bank
- ☐ Benches

- ☐ Soil development
- ☐ Surface relief
- ☐ Other: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

**Comments:**

*Large & small cobbles present in channel bottom along with  
areas of coarse sand.*



**Project ID:** \_\_\_\_\_ **Cross section ID:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

**Floodplain unit:**    ☐ Low-Flow Channel    ☐ Active Floodplain    ☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ %    Tree: \_\_\_\_\_ %    Shrub: \_\_\_\_\_ %    Herb: \_\_\_\_\_ %

Community successional stage:

- |   |  |
|---|--|
| <input type="checkbox"/> NA                             | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

**Indicators:**

- |   |   |
|---|---|
| <input type="checkbox"/> Mudcracks                | <input type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                  | <input type="checkbox"/> Surface relief   |
| <input type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Benches                  | <input type="checkbox"/> Other: _____     |

**Comments:**

**Floodplain unit:**    ☐ Low-Flow Channel    ☐ Active Floodplain    ☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ %    Tree: \_\_\_\_\_ %    Shrub: \_\_\_\_\_ %    Herb: \_\_\_\_\_ %

Community successional stage:

- |   |  |
|---|--|
| <input type="checkbox"/> NA                             | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

**Indicators:**

- |   |   |
|---|---|
| <input type="checkbox"/> Mudcracks                | <input type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                  | <input type="checkbox"/> Surface relief   |
| <input type="checkbox"/> Drift and/or debris      | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Benches                  | <input type="checkbox"/> Other: _____     |

**Comments:**



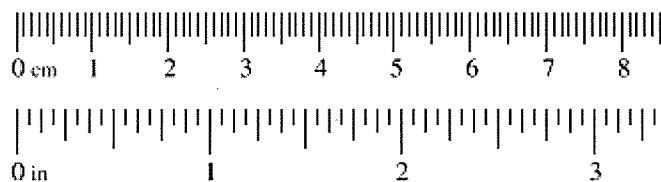
# Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> SWV <b>Project Number:</b> 8868 <b>Stream:</b> N, W-3 <b>Investigator(s):</b> B. Prossal, A. Smisek		<b>Date:</b> 9 Feb 22 <b>Time:</b> 11:30 <b>Town:</b> San Diego <b>State:</b> CA <b>Photo begin file#:</b> — <b>Photo end file#:</b> —	
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?		<b>Location Details:</b> 32.548291, -117.022074 <b>Projection:</b> State Plane <b>Datum:</b> NAD83 <b>Coordinates:</b>	
<b>Potential anthropogenic influences on the channel system:</b> none, but culvert off site downstream			
<b>Brief site description:</b> cobbly drainage in grassy canyon, meandering thru cyn.			
<b>Checklist of resources (if available):</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input checked="" type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </div> <div style="width: 48%;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </div> </div>			
<b>Hydrogeomorphic Floodplain Units</b> 			
<b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OHW M:</b> <ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHW M and record the indicators. Record the OHW M position via:           <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <input checked="" type="checkbox"/> Mapping on aerial photograph  <input type="checkbox"/> Digitized on computer           </div> <div> <input checked="" type="checkbox"/> GPS  <input type="checkbox"/> Other:           </div> </div> </li> </ol>			



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	Gravel
2.56	64	Cobble	
0.157	4	Pebble	
		Granule	
0.079	2.00	Very coarse sand	Sand
0.039	1.00	Coarse sand	
0.020	0.50	Medium sand	
1/2 0.0098	0.25	Fine sand	
1/4 0.005	0.125	Very fine sand	
1/8 0.0025	0.0625		Silt
1/16 0.0012	0.031	Coarse silt	
1/32 0.00061	0.0156	Medium silt	
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	Mud
		Clay	



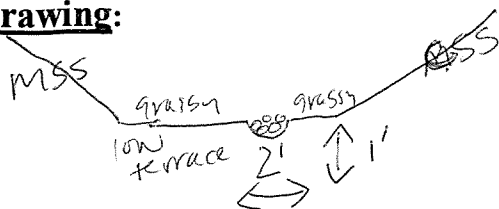


Project ID: 8868

Cross section ID: N3

Date: 9 Feb 22 Time: 11:30

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture  
☐ Change in vegetation species  
☒ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

Comments:

**Floodplain unit:**

☒ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: coarse

Total veg cover: 10 % Tree: 1 % Shrub: 1 % Herb: 10 %

Community successional stage:

- ☐ NA  
☒ Early (herbaceous & seedlings)  
☐ Mid (herbaceous, shrubs, saplings)  
☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☐ Ripples  
☒ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☐ Surface relief  
☒ Other: Sediment deposits  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

Comments:



**Project ID:** \_\_\_\_\_ **Cross section ID:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

**Floodplain unit:** ☐ Low-Flow Channel ☐ Active Floodplain ☒ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**  
 Average sediment texture: loam  
 Total veg cover: 75 % Tree:     % Shrub:     % Herb: 75 %  
 Community successional stage:  
☐ NA ☐ Mid (herbaceous, shrubs, saplings)  
☒ Early (herbaceous & seedlings) ☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

<input type="checkbox"/> Mudcracks	<input type="checkbox"/> Soil development
<input type="checkbox"/> Ripples	<input type="checkbox"/> Surface relief
<input type="checkbox"/> Drift and/or debris	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Presence of bed and bank	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Benches	<input type="checkbox"/> Other: _____

**Comments:** none

**Floodplain unit:** ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**  
 Average sediment texture: \_\_\_\_\_  
 Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %  
 Community successional stage:  
☐ NA ☐ Mid (herbaceous, shrubs, saplings)  
☐ Early (herbaceous & seedlings) ☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

<input type="checkbox"/> Mudcracks	<input type="checkbox"/> Soil development
<input type="checkbox"/> Ripples	<input type="checkbox"/> Surface relief
<input type="checkbox"/> Drift and/or debris	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Presence of bed and bank	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Benches	<input type="checkbox"/> Other: _____

**Comments:** \_\_\_\_\_



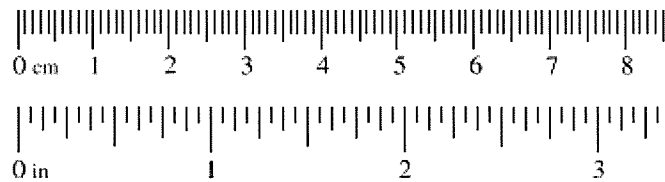
# Arid West Ephemeral and Intermittent Streams OTHM Datasheet

<b>Project:</b> SWV <b>Project Number:</b> 8868 <b>Stream:</b> O, point 0-2 <b>Investigator(s):</b> B. Presal, M. Olson		<b>Date:</b> 7 May 21 <b>Town:</b> San Diego <b>Photo begin file#:</b> <b>Time:</b> 8:49am <b>State:</b> CA <b>Photo end file#:</b>	
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?		<b>Location Details:</b> Moody Canyon  <b>Projection:</b> State Plane <b>Datum:</b> NAD 83 <b>Coordinates:</b> 32.557842, -117.036924	
<b>Potential anthropogenic influences on the channel system:</b> upstream trash dumping			
<b>Brief site description:</b> Cobble stream channel in Moody Cyn			
<b>Checklist of resources (if available):</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input checked="" type="checkbox"/> Existing delineation(s) for site (Beyer 2017)  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </div> <div style="width: 50%;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </div> </div>			
<b>Hydrogeomorphic Floodplain Units</b> 			
<b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OTHM:</b> <ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OTHM and record the indicators. Record the OTHM position via:           <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div> <input checked="" type="checkbox"/> Mapping on aerial photograph  <input type="checkbox"/> Digitized on computer           </div> <div> <input checked="" type="checkbox"/> GPS  <input type="checkbox"/> Other:           </div> </div> </li> </ol>			



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	Gravel
2.56	64	Cobble	
0.157	4	Pebble	
		Granule	
0.079	2.00	Very coarse sand	Sand
0.039	1.00	Coarse sand	
0.020	0.50	Medium sand	
1/2 0.0098	0.25	Fine sand	
1/4 0.005	0.125	Very fine sand	
1/8 0.0025	0.0625		Silt
1/16 0.0012	0.031	Coarse silt	
1/32 0.00061	0.0156	Medium silt	
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	Mud
		Clay	



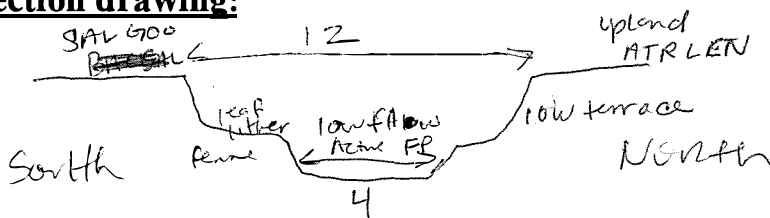


Project ID: 8868

Cross section ID: 0-2

Date: 7 May, 2021 Time: 8:49am

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Change in average sediment texture | <input type="checkbox"/> Break in bank slope |
| <input checked="" type="checkbox"/> Change in vegetation species       | <input type="checkbox"/> Other: _____        |
| <input checked="" type="checkbox"/> Change in vegetation cover         | <input type="checkbox"/> Other: _____        |

**Comments:**

Unvegetated channel; clear break in slope; veg change

**Floodplain unit:**

☒ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

GPS point: Co

**Characteristics of the floodplain unit:**

Average sediment texture: Cobble and Sand

Total veg cover: 0 % Tree: 0 % Shrub: 0 % Herb: 0 %

Community successional stage:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> NA                  | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

**Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Mudcracks                           | <input type="checkbox"/> Soil development |
| <input checked="" type="checkbox"/> Ripples                  | <input type="checkbox"/> Surface relief   |
| <input type="checkbox"/> Drift and/or debris                 | <input type="checkbox"/> Other: _____     |
| <input checked="" type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____     |
| <input type="checkbox"/> Benches                             | <input type="checkbox"/> Other: _____     |

**Comments:**

cobbly channel, no veg



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☒ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: Silt

Total veg cover: 0 % Tree: 0 % Shrub: 0 % Herb: 1 %

Community successional stage:

☐ NA

☒ Early (herbaceous & seedlings)

☒ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☒ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**



## Arid West Ephemeral and Intermittent Streams OHWM Datasheet

**Project:** Southwest Village

**Date:** Feb 18, 2020

**Time:** 1:40pm

**Project Number:** 8868

**Town:** San Diego

**State:** CA

**Stream:** P's Point P-1

**Photo begin file#:**

**Photo end file#:**

**Investigator(s):** B. Prosser, J. Sundberg

Y ☒ / N ☐ Do normal circumstances exist on the site?

**Location Details:**

32.55837, -117.02917

Y ☐ / N ☒ Is the site significantly disturbed?

**Projection:**

**Datum:** NAD83

**Coordinates:** State Plane

**Potential anthropogenic influences on the channel system:**

Dumping and erosion on mesa top

**Brief site description:**

Steep, narrow canyon, flowing north into Moody Canyon

**Checklist of resources (if available):**

☒ Aerial photography

Dates:

☒ Topographic maps

☐ Geologic maps

☐ Vegetation maps

☒ Soils maps

☐ Rainfall/precipitation maps

☐ Existing delineation(s) for site

☐ Global positioning system (GPS)

☐ Other studies

☐ Stream gage data

Gage number:

Period of record:

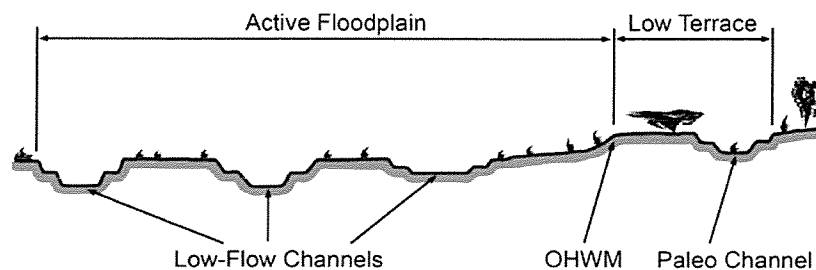
☐ History of recent effective discharges

☐ Results of flood frequency analysis

☐ Most recent shift-adjusted rating

☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

### Hydrogeomorphic Floodplain Units



**Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:**

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
  - a) Record the floodplain unit and GPS position.
  - b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
  - c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:

☒ Mapping on aerial photograph

☒ GPS

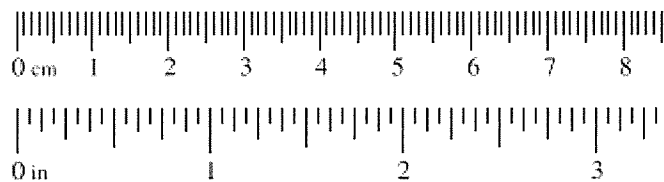
☐ Digitized on computer

☐ Other:



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
		Granule
0.079	2.00	Very coarse sand
0.039	1.00	Coarse sand
0.020	0.50	Medium sand
1/2 0.0098	0.25	Fine sand
1/4 0.005	0.125	Very fine sand
1/8 0.0025	0.0625	
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay

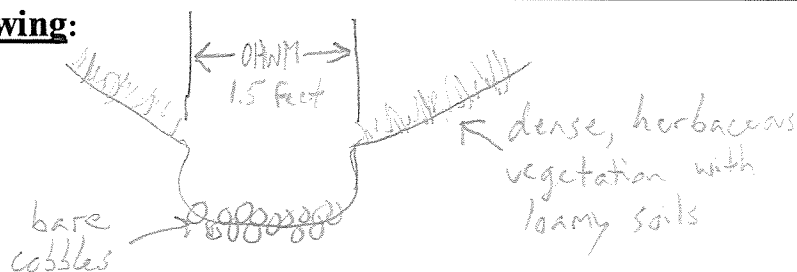




Project ID: 8868

Cross section ID: P-1

Date: Feb 18, 2020 Time: 1:40 pm

**Cross section drawing:****OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture  
☒ Change in vegetation species  
☒ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

Distinct, nearly verticle banks, undercut in spots.

**Floodplain unit:**☒ Low-Flow Channel☒ Active Floodplain☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**Average sediment texture: cobbleTotal veg cover: 0 % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

- ☒ NA  
☐ Early (herbaceous & seedlings)

- ☐ Mid (herbaceous, shrubs, saplings)  
☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☐ Ripples  
☐ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☐ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

**Comments:**

Low-Flow channel, active floodplain very steep gradient well defined by topography and vegetation



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**



## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

**Project:** Southwest Village

**Project Number:** 8P68

**Stream:** Q: Point Q-1

**Investigator(s):** B. Prosser, J. Sundberg

**Date:** Feb. 18, 2020

**Town:** San Diego

**Photo begin file#:**

**Time:** 1:00pm

**State:** CA

**Photo end file#:**

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

**Location Details:**

32.55883, -117.02861

**Projection:**

**Coordinates:**

**Datum:**

NAD 83

**Potential anthropogenic influences on the channel system:**

Some erosion on mesa above.

**Brief site description:**

North Flaming side canyon to Moody Canyon

**Checklist of resources (if available):**

☒ Aerial photography

Dates:

☒ Topographic maps

☐ Geologic maps

☐ Vegetation maps

☒ Soils maps

☐ Rainfall/precipitation maps

☐ Existing delineation(s) for site

☒ Global positioning system (GPS)

☐ Other studies

☐ Stream gage data

Gage number:

Period of record:

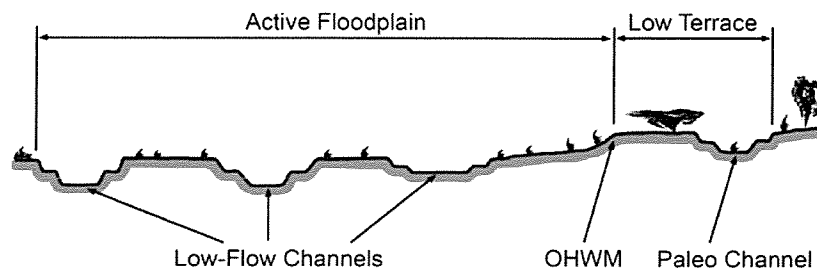
☐ History of recent effective discharges

☐ Results of flood frequency analysis

☐ Most recent shift-adjusted rating

☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

### Hydrogeomorphic Floodplain Units



**Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:**

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
  - a) Record the floodplain unit and GPS position.
  - b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
  - c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:

☒ Mapping on aerial photograph

☐ Digitized on computer

☒ GPS

☐ Other:



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	Gravel
2.56	64	Cobble	
0.157	4	Pebble	
		Granule	
0.079	2.00	Very coarse sand	Sand
0.039	1.00	Coarse sand	
0.020	0.50	Medium sand	
1/2 0.0098	0.25	Fine sand	
1/4 0.005	0.125	Very fine sand	
1/8 0.0025	0.0625		Silt
1/16 0.0012	0.031	Coarse silt	
1/32 0.00061	0.0156	Medium silt	
1/84 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	Mud
		Clay	

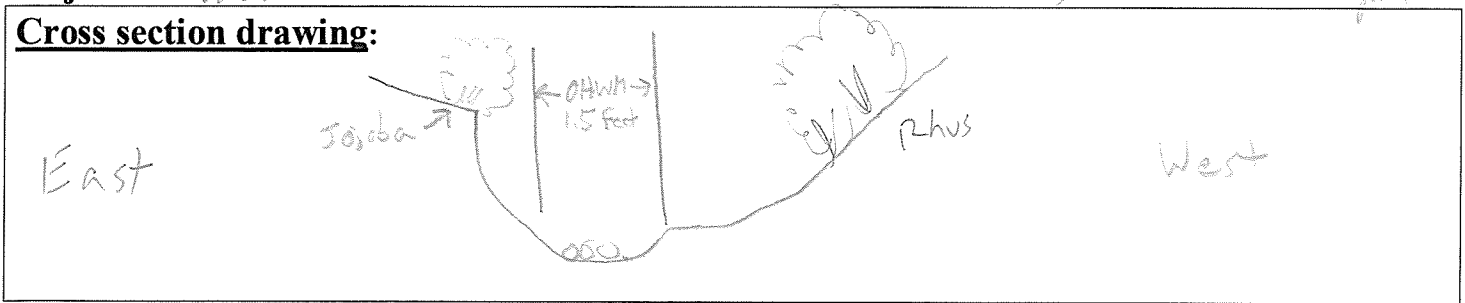




Project ID: 8868

Cross section ID: Q-1

Date: Feb. 18, 2020 Time: 1:00 pm

**Cross section drawing:****OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Change in average sediment texture | <input checked="" type="checkbox"/> Break in bank slope |
| <input type="checkbox"/> Change in vegetation species                  | <input type="checkbox"/> Other: _____                   |
| <input type="checkbox"/> Change in vegetation cover                    | <input type="checkbox"/> Other: _____                   |

**Comments:**

Distinct break in slope and sediment change.  
Herbaceous species invaded channel.

**Floodplain unit:**☒ Low-Flow Channel☒ Active Floodplain☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: 15 % Tree: 0 % Shrub: 0 % Herb: 15 %

Community successional stage:

- |  |  |
|--|--|
| <input type="checkbox"/> NA  | <input type="checkbox"/> Mid (herbaceous, shrubs, saplings)      |
| <input checked="" type="checkbox"/> Early (herbaceous & seedlings) | <input type="checkbox"/> Late (herbaceous, shrubs, mature trees) |

**Indicators:**

- |  |  |
|--|--|
| <input type="checkbox"/> Mudcracks                           | <input checked="" type="checkbox"/> Soil development |
| <input type="checkbox"/> Ripples                             | <input type="checkbox"/> Surface relief              |
| <input type="checkbox"/> Drift and/or debris                 | <input type="checkbox"/> Other: _____                |
| <input checked="" type="checkbox"/> Presence of bed and bank | <input type="checkbox"/> Other: _____                |
| <input type="checkbox"/> Benches                             | <input type="checkbox"/> Other: _____                |

**Comments:**

Soil development present outside of channel.  
Gravelly sediments; outside is loamy  
Philortoma and Claytonia in channel; no shrubs in channel.



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**



## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> SWV <b>Project Number:</b> 8868 <b>Stream:</b> R-9 (leading south of Central Ave) <b>Investigator(s):</b> G AS, EAP		<b>Date:</b> 17 Mar 21 <b>Time:</b> 9:59am <b>Town:</b> San Diego <b>State:</b> CA <b>Photo begin file#:</b> <b>Photo end file#:</b>					
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Is the site significantly disturbed?		<b>Location Details:</b> leading into Spring Cyn. <b>Projection:</b> State Plane <b>Datum:</b> NAD83 <b>Coordinates:</b> 32.561322, -117.017787					
<b>Potential anthropogenic influences on the channel system:</b> trash + rip rap has been dumped, affects flow pattern. Very disturbed							
<b>Brief site description:</b> drainage continued from opposite side of road. Highly disturbed, top of Spring Cyn							
<b>Checklist of resources (if available):</b> <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top; width: 50%;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input checked="" type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </td> <td style="vertical-align: top; width: 50%;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </td> </tr> </table>				<input checked="" type="checkbox"/> Aerial photography Dates: <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input checked="" type="checkbox"/> Vegetation maps <input checked="" type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event		
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<b>Hydrogeomorphic Floodplain Units</b>							
<b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:</b> <ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHWM and record the indicators. Record the OHWM position via:           <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Mapping on aerial photograph</td> <td><input checked="" type="checkbox"/> GPS</td> </tr> <tr> <td><input type="checkbox"/> Digitized on computer</td> <td><input type="checkbox"/> Other:</td> </tr> </table> </li> </ol>				<input type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS	<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:
<input type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS						
<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:						



### Wentworth Size Classes

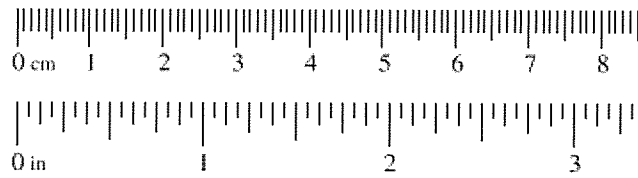
Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
0.079	2.00	Granule
0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay

Gravel

Sand

Silt

Mud





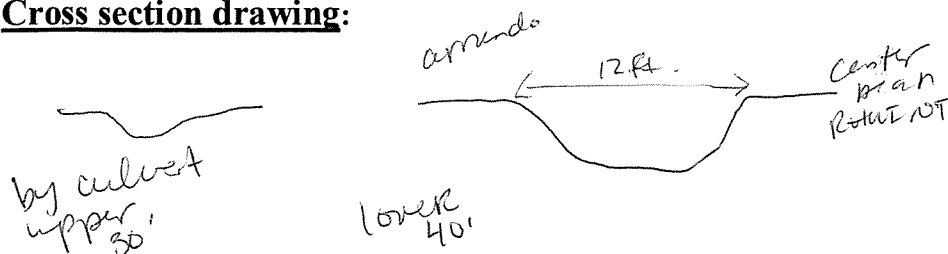
Project ID:

Cross section ID:

Date:

Time:

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☐ Change in average sediment texture  
☒ Change in vegetation species  
☐ Change in vegetation cover

- ☒ Break in bank slope  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

Comments:

**Floodplain unit:**

☒ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

SD Confined, they are the same

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: dumped concrete blocks, all fines are carried down  
water goes thru fast

Total veg cover: 0 % Tree: 0 % Shrub: 60 % Herb: 5 %

Community successional stage:

- ☐ NA  
☐ Early (herbaceous & seedlings)  
☐ Mid (herbaceous, shrubs, saplings)  
☒ Late (herbaceous, shrubs, mature trees)

**Indicators:**

- ☐ Mudcracks  
☐ Ripples  
☐ Drift and/or debris  
☒ Presence of bed and bank  
☐ Benches

- ☐ Soil development  
☐ Surface relief  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

Comments:



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_% Tree: \_\_\_\_\_% Shrub: \_\_\_\_\_% Herb: \_\_\_\_\_%

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_% Tree: \_\_\_\_\_% Shrub: \_\_\_\_\_% Herb: \_\_\_\_\_%

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

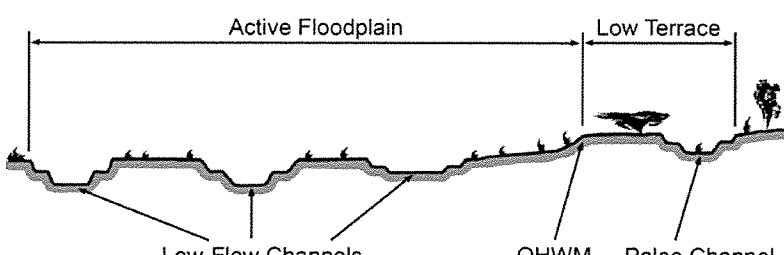
☐ Other: \_\_\_\_\_

**Comments:**



# Spring canyon lower pt

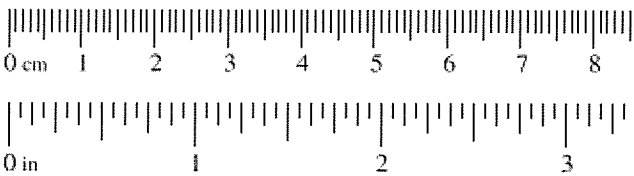
## Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> SWV <b>Project Number:</b> 8868 <b>Stream:</b> S-1 <b>Investigator(s):</b> G. Sheid, B. Prosser	<b>Date:</b> 17 Mar 21 <b>Town:</b> San Diego <b>State:</b> CA <b>Photo begin file#:</b> <b>Photo end file#:</b>				
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?	<b>Location Details:</b> Ephemeral drainage in mitigation lands <b>Projection:</b> State Plane <b>Datum:</b> NAD 83 <b>Coordinates:</b> 32.548950, -117.007065				
<b>Potential anthropogenic influences on the channel system:</b> none					
<b>Brief site description:</b> Spring cyn, flows to TS River					
<b>Checklist of resources (if available):</b> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input checked="" type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </td> </tr> </table>		<input checked="" type="checkbox"/> Aerial photography Dates: <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input checked="" type="checkbox"/> Vegetation maps <input checked="" type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event		
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<input type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS				
<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:				



Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
0.079	2.00	Granule
0.039	1.00	Very coarse sand
0.020	0.50	Coarse sand
1/2 0.0098	0.25	Medium sand
1/4 0.005	0.125	Fine sand
1/8 0.0025	0.0625	Very fine sand
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay





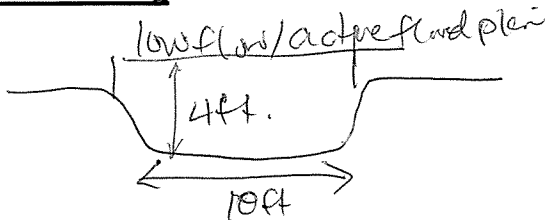
Project ID:

Cross section ID:

Date:

Time:

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture
- ☒ Change in vegetation species
- ☒ Change in vegetation cover

- ☒ Break in bank slope
- ☐ Other: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

Comments:

**Floodplain unit:**

☒ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: Sandy silt

Total veg cover: \_\_\_\_\_ % Tree: 30 % Shrub: 30 % Herb: \_\_\_\_\_ %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☒ Late (herbaceous, shrubs, mature trees)

plants rooted on bank, canopy overlap bank

**Indicators:**

- ☐ Mudcracks
- ☐ Ripples
- ☒ Drift and/or debris
- ☒ Presence of bed and bank
- ☒ Benches

- ☐ Soil development
- ☐ Surface relief
- ☐ Other: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

Comments:



**Project ID:**

**Cross section ID:**

**Date:**

**Time:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**

**Floodplain unit:**

☐ Low-Flow Channel

☐ Active Floodplain

☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: \_\_\_\_\_

Total veg cover: \_\_\_\_\_ % Tree: \_\_\_\_\_ % Shrub: \_\_\_\_\_ % Herb: \_\_\_\_\_ %

Community successional stage:

☐ NA

☐ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☐ Mudcracks

☐ Ripples

☐ Drift and/or debris

☐ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: \_\_\_\_\_

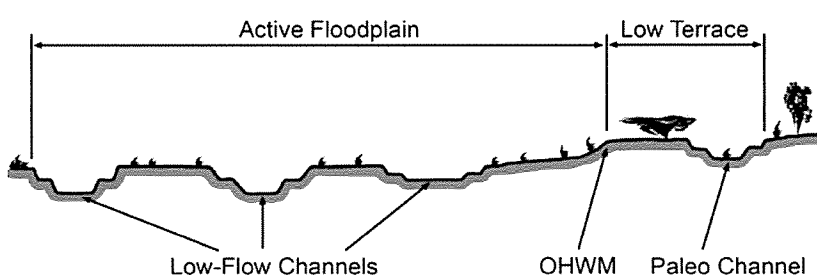
☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

**Comments:**



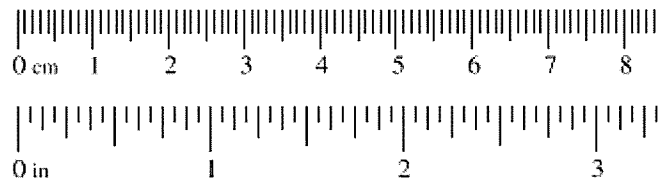
# Arid West Ephemeral and Intermittent Streams OHW M Datasheet

<b>Project:</b> SWV <b>Project Number:</b> 8868 <b>Stream:</b> T <b>Investigator(s):</b> AKS, EAP		<b>Date:</b> 9 Feb 22 <b>Town:</b> San Diego <b>Photo begin file#:</b> <b>Time:</b> 10:15 <b>State:</b> CA <b>Photo end file#:</b>					
Y <input checked="" type="checkbox"/> / N <input type="checkbox"/> Do normal circumstances exist on the site?  Y <input checked="" type="checkbox"/> / N <input checked="" type="checkbox"/> Is the site significantly disturbed?		<b>Location Details:</b> 32-545428, -117.015104 <b>Projection:</b> State Plane <b>Datum:</b> NAD83 <b>Coordinates:</b>					
<b>Potential anthropogenic influences on the channel system:</b> <div style="text-align: center; font-family: cursive; font-size: 1.2em;">none, culvert on downstream end</div>							
<b>Brief site description:</b> <div style="text-align: center; font-family: cursive; font-size: 1.2em;">drainage is within mitigation lands &amp; will be preserved. It meanders down swallow canyon.</div>							
<b>Checklist of resources (if available):</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Aerial photography            Dates:  <input checked="" type="checkbox"/> Topographic maps  <input type="checkbox"/> Geologic maps  <input checked="" type="checkbox"/> Vegetation maps  <input checked="" type="checkbox"/> Soils maps  <input type="checkbox"/> Rainfall/precipitation maps  <input type="checkbox"/> Existing delineation(s) for site  <input checked="" type="checkbox"/> Global positioning system (GPS)  <input type="checkbox"/> Other studies         </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Stream gage data            Gage number:            Period of record:  <input type="checkbox"/> History of recent effective discharges  <input type="checkbox"/> Results of flood frequency analysis  <input type="checkbox"/> Most recent shift-adjusted rating  <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event         </td> </tr> </table>				<input checked="" type="checkbox"/> Aerial photography Dates: <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input checked="" type="checkbox"/> Vegetation maps <input checked="" type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event		
<input checked="" type="checkbox"/> Aerial photography Dates: <input checked="" type="checkbox"/> Topographic maps <input type="checkbox"/> Geologic maps <input checked="" type="checkbox"/> Vegetation maps <input checked="" type="checkbox"/> Soils maps <input type="checkbox"/> Rainfall/precipitation maps <input type="checkbox"/> Existing delineation(s) for site <input checked="" type="checkbox"/> Global positioning system (GPS) <input type="checkbox"/> Other studies	<input type="checkbox"/> Stream gage data Gage number: Period of record: <input type="checkbox"/> History of recent effective discharges <input type="checkbox"/> Results of flood frequency analysis <input type="checkbox"/> Most recent shift-adjusted rating <input type="checkbox"/> Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event						
<b>Hydrogeomorphic Floodplain Units</b> 							
<b>Procedure for identifying and characterizing the floodplain units to assist in identifying the OHW M:</b> <ol style="list-style-type: none"> <li>1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.</li> <li>2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.</li> <li>3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.           <ol style="list-style-type: none"> <li>a) Record the floodplain unit and GPS position.</li> <li>b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.</li> <li>c) Identify any indicators present at the location.</li> </ol> </li> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHW M and record the indicators. Record the OHW M position via:           <table style="width: 100%; border: none; margin-top: 5px;"> <tr> <td style="width: 50%;"><input checked="" type="checkbox"/> Mapping on aerial photograph</td> <td style="width: 50%;"><input checked="" type="checkbox"/> GPS</td> </tr> <tr> <td><input type="checkbox"/> Digitized on computer</td> <td><input type="checkbox"/> Other:</td> </tr> </table> </li> </ol>				<input checked="" type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS	<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Mapping on aerial photograph	<input checked="" type="checkbox"/> GPS						
<input type="checkbox"/> Digitized on computer	<input type="checkbox"/> Other:						



### Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class
10.08	256	Boulder
2.56	64	Cobble
0.157	4	Pebble
		Granule
0.079	2.00	Very coarse sand
0.039	1.00	Coarse sand
0.020	0.50	Medium sand
1/2 0.0098	0.25	Fine sand
1/4 0.005	0.125	Very fine sand
1/8 0.0025	0.0625	
1/16 0.0012	0.031	Coarse silt
1/32 0.00061	0.0156	Medium silt
1/64 0.00031	0.0078	Fine silt
1/128 0.00015	0.0039	Very fine silt
		Clay





Project ID:

Cross section ID:

Date:

Time:

**Cross section drawing:**



**OHWM**

GPS point: \_\_\_\_\_

**Indicators:**

- ☒ Change in average sediment texture  
☐ Change in vegetation species  
☒ Change in vegetation cover

☒ Break in bank slope

☐ Other: e

☐ Other: \_\_\_\_\_

Comments:

**Floodplain unit:**

☒ Low-Flow Channel

☒ Active Floodplain

☐ Low Terrace

GPS point: \_\_\_\_\_

**Characteristics of the floodplain unit:**

Average sediment texture: cobble

Total veg cover: 10 % Tree: — % Shrub: — % Herb: 10 %

Community successional stage:

☐ NA

☒ Early (herbaceous & seedlings)

☐ Mid (herbaceous, shrubs, saplings)

☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

☒ Mudcracks

☐ Ripples

☒ Drift and/or debris

☒ Presence of bed and bank

☐ Benches

☐ Soil development

☐ Surface relief

☐ Other: Sediment deposits

☐ Other: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Comments:



**Project ID:** \_\_\_\_\_ **Cross section ID:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

**Floodplain unit:**    ☐ Low-Flow Channel    ☐ Active Floodplain    ☒ Low Terrace  
*Slopes outside channel*

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**  
 Average sediment texture: loamy w/ cobble  
 Total veg cover: 50 %    Tree: — %    Shrub: 25 %    Herb: 25 %  
 Community successional stage:  
☐ NA    ☒ Mid (herbaceous, shrubs, saplings)  
☐ Early (herbaceous & seedlings)    ☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

<input type="checkbox"/> Mudcracks	<input type="checkbox"/> Soil development
<input type="checkbox"/> Ripples	<input type="checkbox"/> Surface relief
<input type="checkbox"/> Drift and/or debris	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Presence of bed and bank	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Benches	<input type="checkbox"/> Other: _____

**Comments:** \_\_\_\_\_

**Floodplain unit:**    ☐ Low-Flow Channel    ☐ Active Floodplain    ☐ Low Terrace

**GPS point:** \_\_\_\_\_

**Characteristics of the floodplain unit:**  
 Average sediment texture: \_\_\_\_\_  
 Total veg cover: \_\_\_\_\_ %    Tree: \_\_\_\_\_ %    Shrub: \_\_\_\_\_ %    Herb: \_\_\_\_\_ %  
 Community successional stage:  
☐ NA    ☐ Mid (herbaceous, shrubs, saplings)  
☐ Early (herbaceous & seedlings)    ☐ Late (herbaceous, shrubs, mature trees)

**Indicators:**

<input type="checkbox"/> Mudcracks	<input type="checkbox"/> Soil development
<input type="checkbox"/> Ripples	<input type="checkbox"/> Surface relief
<input type="checkbox"/> Drift and/or debris	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Presence of bed and bank	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Benches	<input type="checkbox"/> Other: _____

**Comments:** \_\_\_\_\_



## ATTACHMENT 8

Data Forms for the Streamflow Duration Assessment Method for the  
Arid West of the United States



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage A	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage A		Visit date: 8/18/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (100% cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.56112  Long (W): -117.02166  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____		Describe reach boundaries:
Mean channel width (m) 1.5 m	Reach length (m): 40x width; min 40 m; max 200 m. 200 m	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		Notes on disturbances or difficult site conditions:
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		Comments on observed hydrology: No ponded water or flows present.

### Site sketch:



## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes / <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected <input type="checkbox"/> Yes, &lt; 10% cover <input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream of Drainage A, Facing East
Photograph 2	Upstream View of Drainage A, Facing West

**Additional notes about the assessment:**



**Classification:** Ephemeral

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Intermittent
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Intermittent
	Many (20+)	Absent	Present	Present	At least intermittent
			Absent	Absent	At least intermittent
		Present	Present	Present	Intermittent
			Absent	Absent	At least intermittent
			Present	Present	Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	At least intermittent
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Perennial
	Many (20+)	Absent	Present	Present	At least intermittent
			Absent	Absent	Perennial
		Present	Present	Present	Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream of Drainage A, Facing East



PHOTOGRAPH 2  
Upstream View of Drainage A, Facing West



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage B(b)	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage B(b)		Visit date: 8/18/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (___ % cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55926  Long (W): -117.02127  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____		Describe reach boundaries:
Mean channel width (m)  1.0 m	Reach length (m): <small>40x width; min 40 m; max 200 m.</small> 40 m	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		Notes on disturbances or difficult site conditions:  Trash dumping on canyon slopes, however, no effect on hydrology.
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		Comments on observed hydrology:

### Site sketch:



## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes / <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
---	--

Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected <input type="checkbox"/> Yes, &lt; 10% cover <input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
--	--	------------------------------	------------------

## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage B(b), Facing Southwest
Photograph 2	Upstream View of Drainage B(b), Facing Northeast

**Additional notes about the assessment:**



**Classification:** Ephemeral

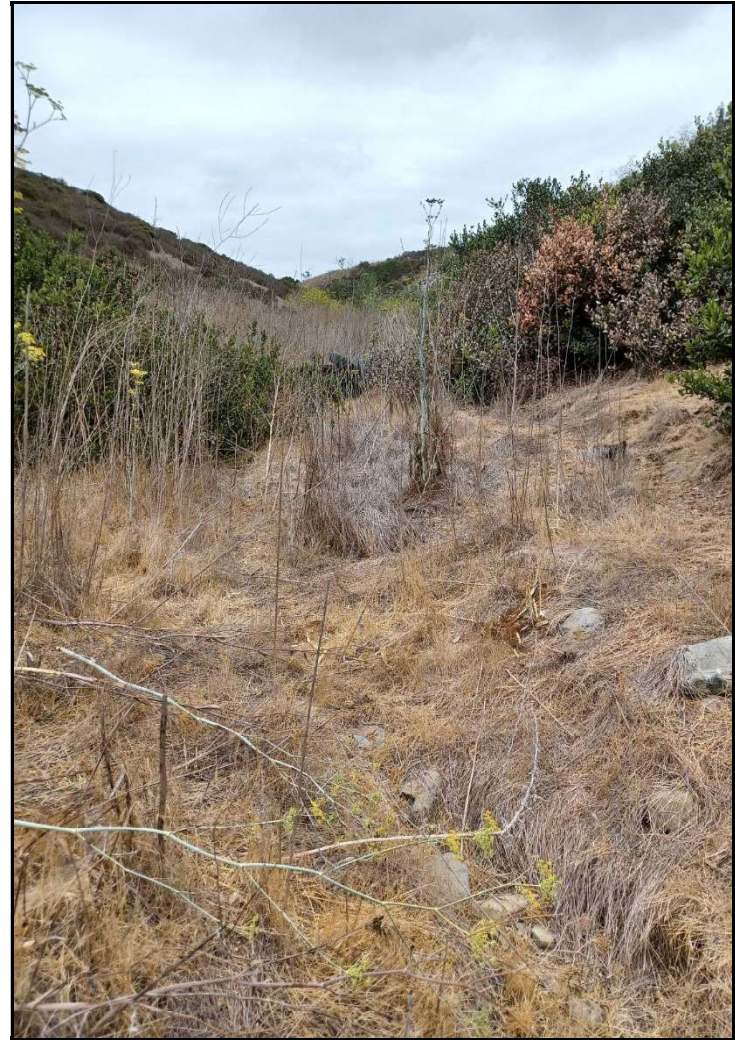
1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Many (20+)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
Few (1-2)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
		Present	Present	Present	At least intermittent
			Absent	Absent	Need more information
	Many (20+)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
		Present	Present	Present	At least intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Absent	Absent	Need more information
		Present	Present	Present	At least intermittent
	Many (20+)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
		Present	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage B(b),  
Facing Southwest



PHOTOGRAPH 2  
Upstream View of Drainage B(b),  
Facing Northeast



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage B	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage B		Visit date: 8/18/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (100 % cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55823  Long (W): -117.02167  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____		Describe reach boundaries:
Mean channel width (m) 1.5 m	Reach length (m): <small>40x width; min 40 m; max 200 m.</small> 200 m	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		Notes on disturbances or difficult site conditions:
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		Comments on observed hydrology:

### Site sketch:



## 1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.




Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

Isolated, but continuous stand of Bacsal in upper mid-channel of reach.

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes / <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage B, Facing Northeast
Photograph 2	Upstream View of Drainage B, Facing Southeast

**Additional notes about the assessment:**



**Classification:** \_\_\_\_\_

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
				Present	At least intermittent
			Present	Absent	Need more information
	Few (1-19)	Absent		Present	At least intermittent
			Absent	Absent	Need more information
				Present	At least intermittent
		Present	Present	Absent	Need more information
				Present	At least intermittent
					At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
		Present		Present	At least intermittent
					At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
			Present		Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			
					Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage B,  
Facing Northeast



PHOTOGRAPH 2  
Upstream View of Drainage B,  
Facing Southeast



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage D	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage D		Visit date: 8/18/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (100 % cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry  Coordinates at downstream end (decimal degrees): Lat (N): 32.55706  Long (W): -117.02457  Datum: NAD83	
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____	Describe reach boundaries: Drainage D flows into drainage E and the entire length of this drainage is less than 40 m. The entire drainage is considered the reach.	
Mean channel width (m)  1.0 m	Reach length (m): <small>40x width; min 40 m; max 200 m.</small> <40 m	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		

### Site sketch:



## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage D, Facing North
Photograph 2	Upstream View of Drainage D, Facing South

**Additional notes about the assessment:**

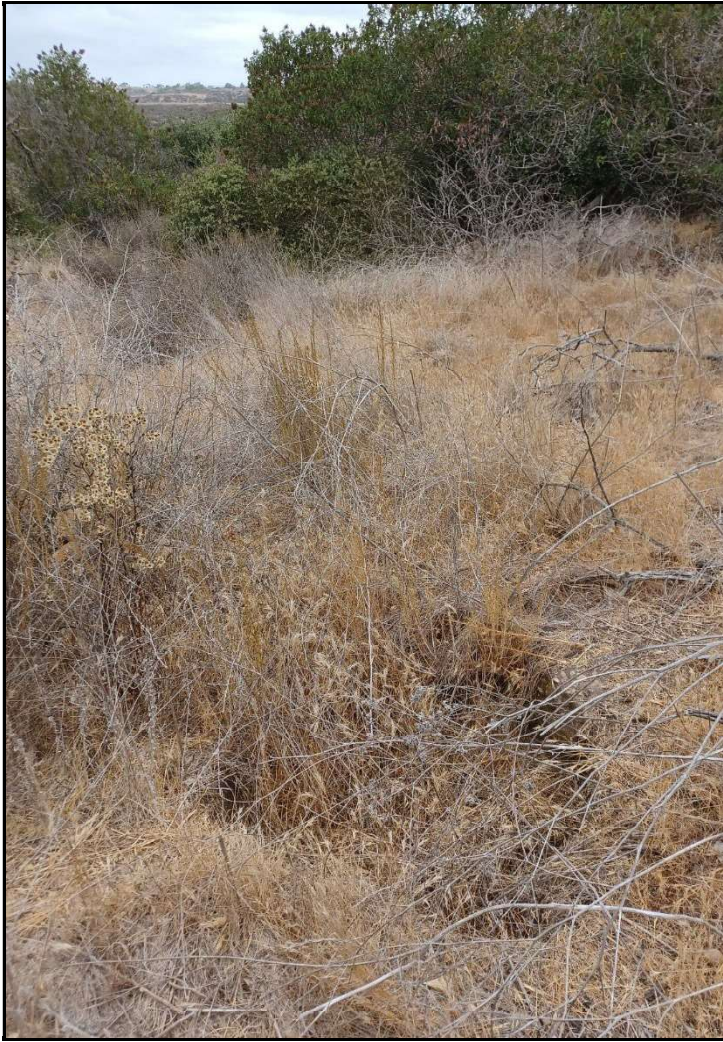


**Classification:** Ephemeral

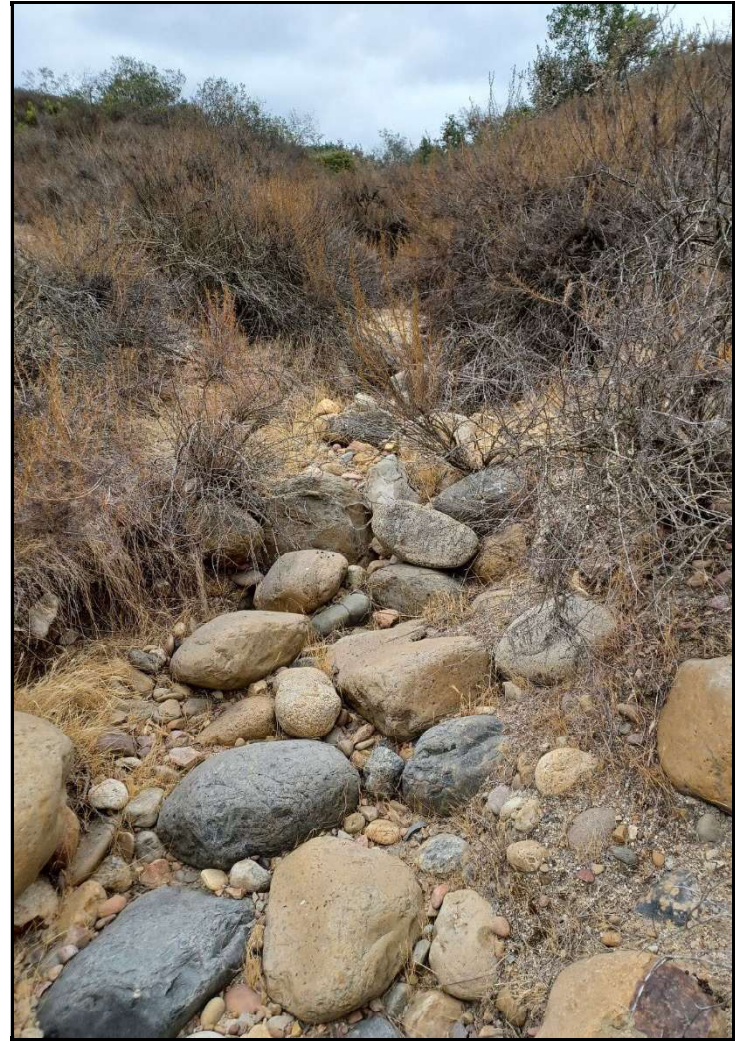
1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover ≥ 10%	Classification
None	None	Absent	Absent	Absent	Ephemeral
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Absent	Need more information
		Present	Present	Present	At least intermittent
					At least intermittent
			Many (20+)	Absent	Absent
	Present	Present			At least intermittent
	Absent	Absent			Need more information
	Present	Present		Present	At least intermittent
					At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
		Few (1-19)	Absent	Absent	
	Present				At least intermittent
	Present				At least intermittent
			Many (20+)	Absent	Absent
	Present				At least intermittent
	Present	Absent			At least intermittent
		Present			Intermittent
	Many (3+)	None		Absent	Absent
Present			Present		At least intermittent
Present					At least intermittent
		Few (1-19)	Absent		
Present					Perennial
Many (20+)			Absent		
		Present			Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage D,  
Facing North



PHOTOGRAPH 2  
Upstream View of Drainage D,  
Facing South



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage E	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage E		Visit date: 8/18/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (100% cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55823  Long (W): -117.02444  Datum: NAD8
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____	Describe reach boundaries:	
Mean channel width (m)  2 m	Reach length (m): <small>40x width; min 40 m; max 200 m.</small> 40 m	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		

### Site sketch:



## 1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.




Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

3 isolated Bacsal + one isolated Tamram observed but less than 2% of AA and only in one location each. Both species are FAC.

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes / <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected <input type="checkbox"/> Yes, &lt; 10% cover <input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage E from the Center, Facing North
Photograph 2	Upstream View of Drainage E, Facing South

**Additional notes about the assessment:**



**Classification:** Ephemeral

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
				Present	At least intermittent
			Present	Absent	Need more information
	Few (1-19)	Absent		Present	At least intermittent
			Absent	Absent	Need more information
				Present	At least intermittent
		Present	Present	Absent	Need more information
				Present	At least intermittent
					At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present			At least intermittent
					At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
			Present		Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			Perennial
					Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage E from the Center,  
Facing North



PHOTOGRAPH 2  
Upstream View of Drainage E,  
Facing South



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage F	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage F		Visit date: 8/20/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (90 % cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55934  Long (W): -117.01783  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other:		Describe reach boundaries:
Mean channel width (m) 0.25 m	Reach length (m): <small>40x width; min 40 m; max 200 m.</small>	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		Notes on disturbances or difficult site conditions:
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		Comments on observed hydrology:

### Site sketch:



## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage F, Facing Southeast

**Additional notes about the assessment:**



**Classification:** Ephemeral

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover ≥ 10%	Classification
None	None	Absent	Absent	Absent	Ephemeral
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Absent	Need more information
		Present	Present	Present	At least intermittent
					At least intermittent
			Many (20+)	Absent	Absent
	Present	Present			At least intermittent
	Absent	Absent			Need more information
	Present	Present		Present	At least intermittent
					At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent		Intermittent
	Few (1-19)	Absent	Present		At least intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
			Present		Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage F, Facing Southeast



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage G	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage G		Visit date: 8/20/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (90 % cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry  Coordinates at downstream end (decimal degrees): Lat (N): 32.55983  Long (W): -117.01791  Datum: NAD83	
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____	Describe reach boundaries:	
Mean channel width (m)  1.0 m	Reach length (m): <small>40x width; min 40 m; max 200 m.</small>	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		

### Site sketch:



## 1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.




Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

One isolated patch of Sallas, but contributes less than 2% of AA. One isolated patch of Bacsal.

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes / <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
--	--	------------------------------	------------------

## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Upstream View of Drainage G from the Center, Facing North
Photograph 2	Downstream View of Drainage G, Facing South

**Additional notes about the assessment:**

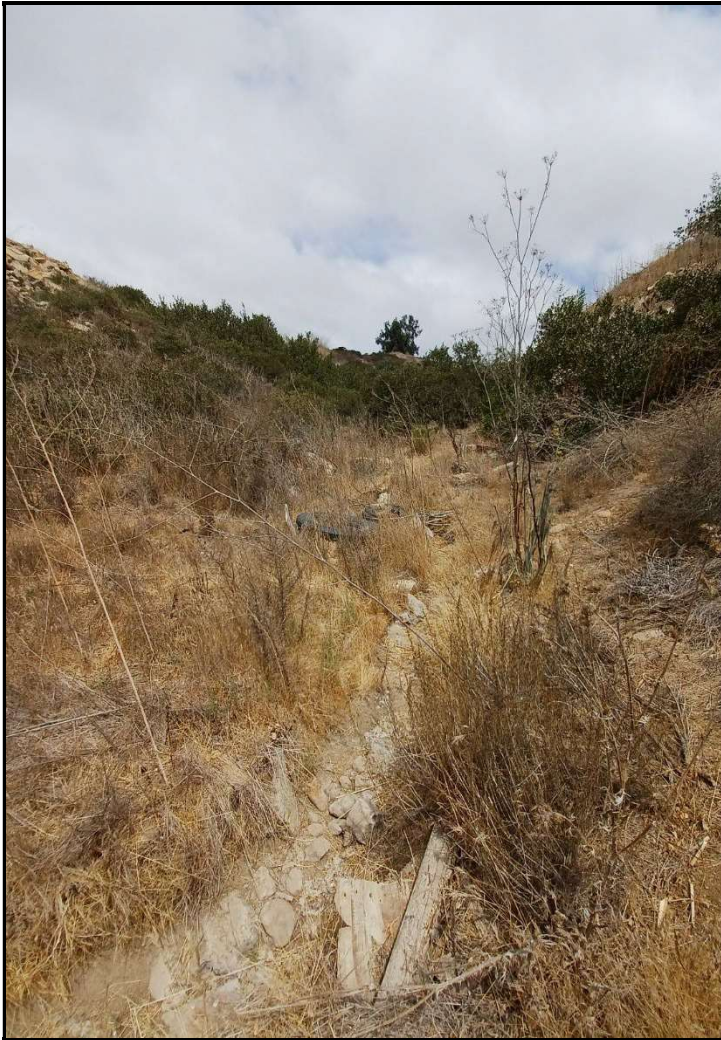


**Classification:** Ephemeral

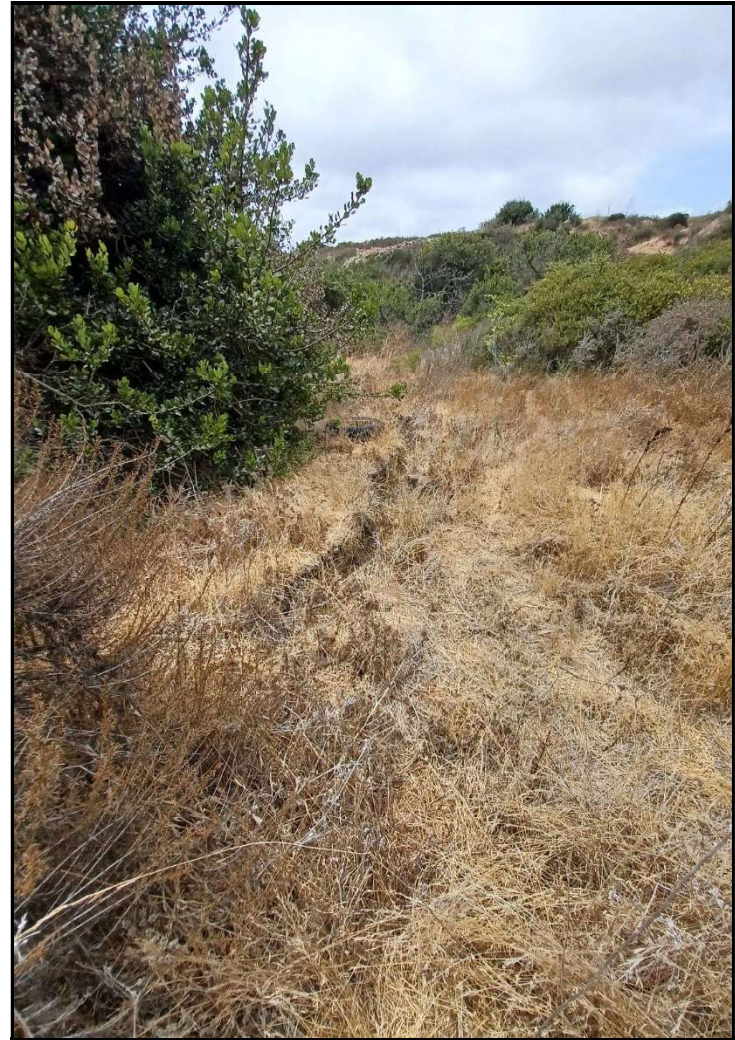
1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
				Present	At least intermittent
			Present	Absent	Need more information
	Few (1-19)	Absent		Present	At least intermittent
			Absent	Absent	Need more information
				Present	At least intermittent
		Present	Present	Absent	Need more information
				Present	At least intermittent
				Present	At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present			At least intermittent
					At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
			Present		Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			Perennial
					Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Upstream View of Drainage G from the Center,  
Facing North



PHOTOGRAPH 2  
Downstream View of Drainage G,  
Facing South



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage H(b)	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage H(B)		Visit date: 8/20/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (85 % cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55379  Long (W): -117.01286  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____		Describe reach boundaries:
Mean channel width (m) 0.5 m	Reach length (m): <small>40x width; min 40 m; max 200 m.</small>	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		Notes on disturbances or difficult site conditions:
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		Comments on observed hydrology:

### Site sketch:



## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes / <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage H(b), Facing South

**Additional notes about the assessment:**



**Classification:** Ephemeral

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
				Present	At least intermittent
			Present	Absent	Need more information
	Few (1-19)	Absent		Present	At least intermittent
			Absent	Absent	Need more information
				Present	At least intermittent
		Present	Present	Absent	Need more information
				Present	At least intermittent
					At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present			At least intermittent
					At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
			Present		Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage H(b), Facing South



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage H	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage H		Visit date: 8/20/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (10 % cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55371  Long (W): -117.01221  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____	Describe reach boundaries:	
Mean channel width (m) 2 m	Reach length (m): 40x width; min 40 m; max 200 m.	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input checked="" type="checkbox"/> Other (explain in notes) <input type="checkbox"/> None		
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		

### Site sketch:



## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes / <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage H from the Center, Facing East
Photograph 2	Upstream View of Drainage H, Facing Southwest

**Additional notes about the assessment:**

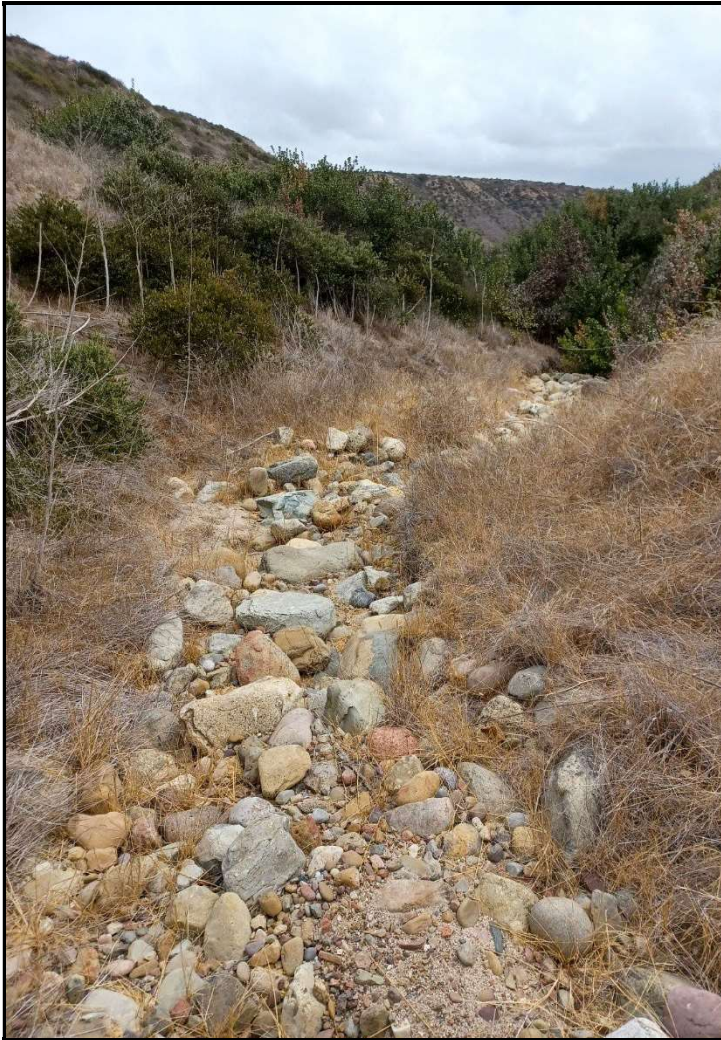


**Classification:** Ephemeral

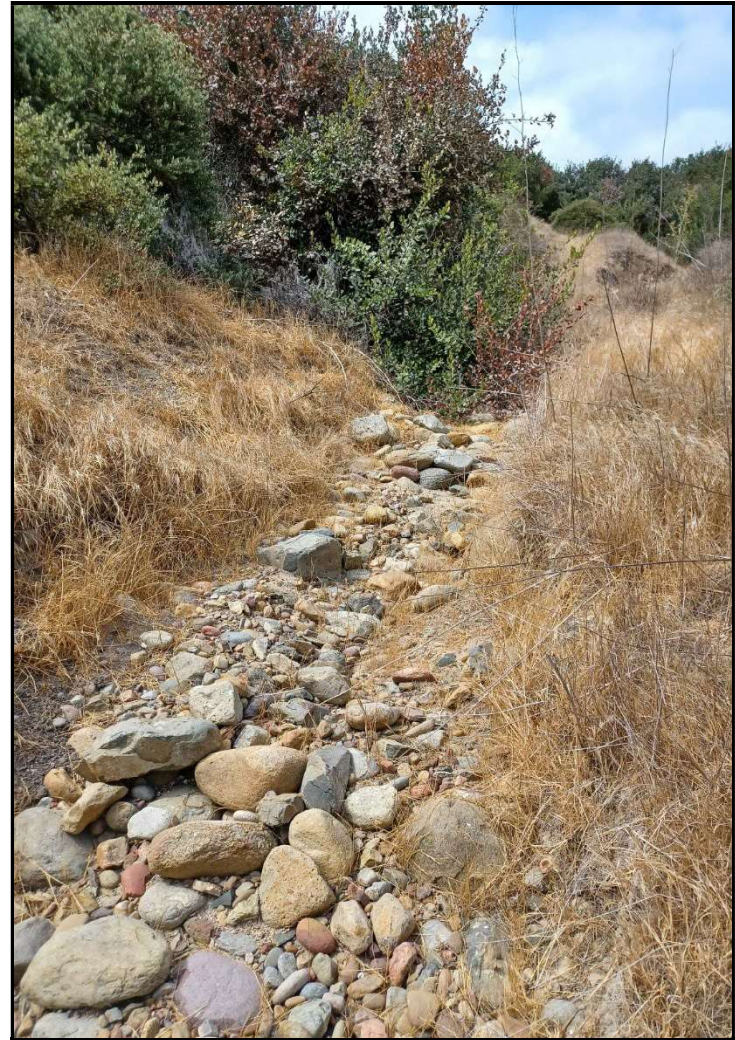
1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
				Present	At least intermittent
			Present	Absent	Need more information
	Few (1-19)	Absent		Present	At least intermittent
			Absent	Absent	Need more information
				Present	At least intermittent
		Present	Present	Absent	Need more information
				Present	At least intermittent
					At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
		Present		Present	At least intermittent
					At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
			Present		Intermittent
	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
		Absent			At least intermittent
		Present			Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage H from the Center,  
Facing East



PHOTOGRAPH 2  
Upstream View of Drainage H,  
Facing Southwest

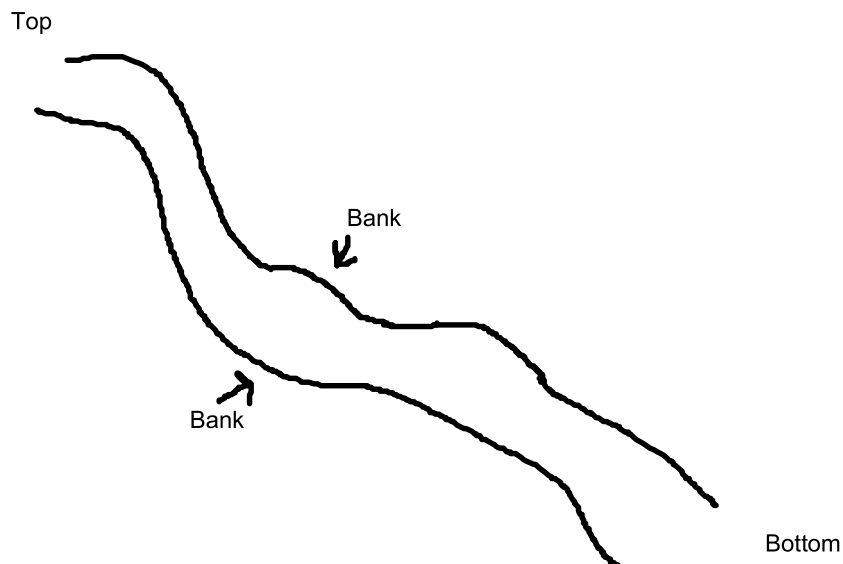


## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage K	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage K		Visit date: 8/18/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (100% cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55418  Long (W): -117.02678  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other:		Describe reach boundaries:
Mean channel width (m) 1.0 m	Reach length (m): 40x width; min 40 m; max 200 m. 40 m	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		Notes on disturbances or difficult site conditions:
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		Comments on observed hydrology: No water or flows observed.

### Site sketch:





## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage K, Facing South
Photograph 2	Upstream View of Drainage K, Facing Southeast

**Additional notes about the assessment:**



**Classification:** Ephemeral

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
				Present	At least intermittent
			Present	Absent	Need more information
	Few (1-19)	Absent		Present	At least intermittent
			Absent	Absent	Need more information
				Present	At least intermittent
		Present	Present	Absent	Need more information
				Present	At least intermittent
					At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present			At least intermittent
					At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
			Present		Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage K,  
Facing South



PHOTOGRAPH 2  
Upstream View of Drainage K,  
Facing Southeast



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage M	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage M		Visit date: 8/18/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (100% cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week):	Coordinates at downstream end (decimal degrees): Lat (N): 32.54963 Long (W): -117.02183 Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other:	Describe reach boundaries:	
Mean channel width (m) 1.5 m	Reach length (m): <small>40x width; min 40 m; max 200 m.</small> 200 m	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		

### Site sketch:



## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
--	--	------------------------------	------------------

## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

None needed.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage M from the Center, Facing Southwest
Photograph 2	Upstream View of Drainage M, Facing Northeast

**Additional notes about the assessment:**

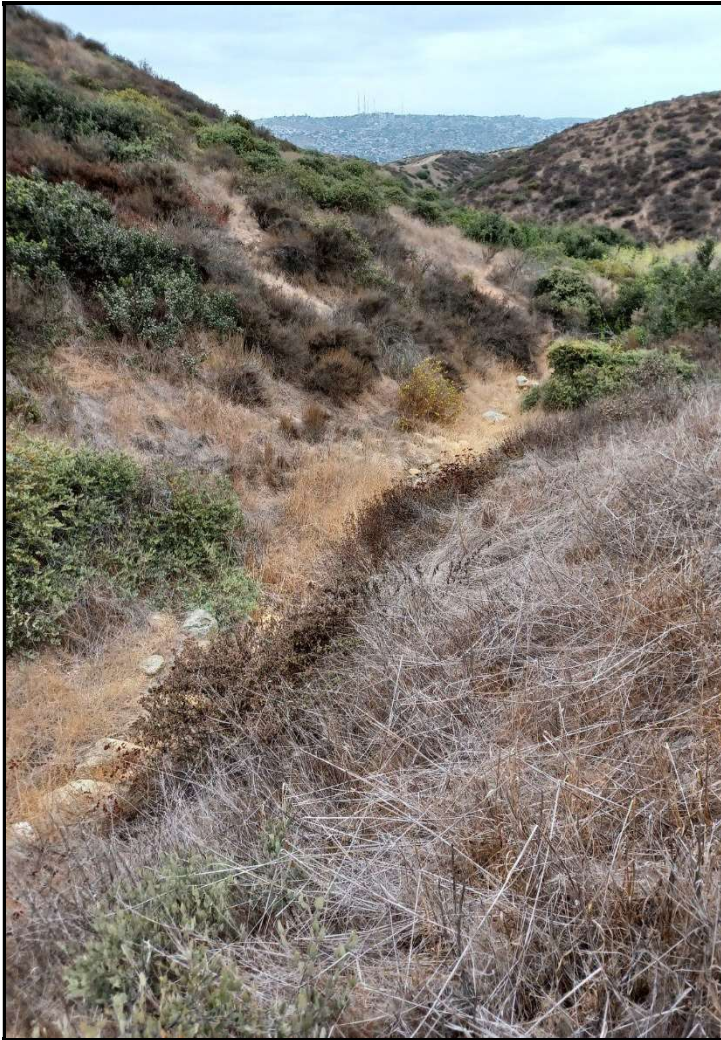


**Classification:** Ephemeral

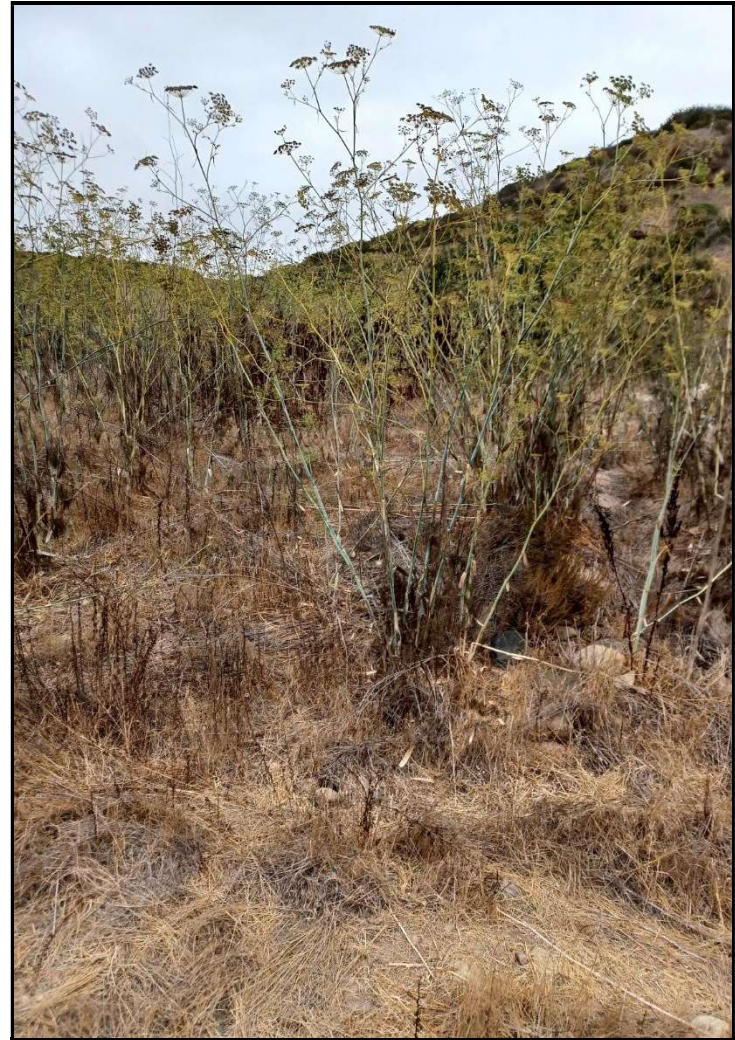
1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
			Present	Present	At least intermittent
			Present	Absent	Need more information
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Present	Present	At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Present	Present	At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Present	Present	At least intermittent
	Few (1-19)	Absent	Absent	Absent	Intermittent
			Present	Present	At least intermittent
		Present	Absent	Absent	Intermittent
			Present	Present	At least intermittent
	Many (20+)	Absent	Absent	Absent	Intermittent
			Present	Present	At least intermittent
		Present	Absent	Absent	At least intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Present	Present	At least intermittent
	Few (1-19)	Absent	Absent	Absent	At least intermittent
		Present	Absent	Absent	Perennial
	Many (20+)	Absent	Absent	Absent	At least intermittent
			Present	Present	Perennial
		Present	Absent	Absent	At least intermittent
		Present	Absent	Absent	Perennial
			Present	Present	Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage M from the Center,  
Facing Southwest



PHOTOGRAPH 2  
Upstream View of Drainage M,  
Facing Northeast



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage O	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage O		Visit date: 8/20/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (100% cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55789  Long (W): -117.03581  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input checked="" type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____		Describe reach boundaries:
Mean channel width (m) 2 m	Reach length (m): 40x width; min 40 m; max 200 m.	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		Notes on disturbances or difficult site conditions:
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		Comments on observed hydrology:

### Site sketch:



## 1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.




Check if applicable: ☐ No vegetation in assessment area ☐ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

One lone Salgou but less than 2% of AA. Scattered patches of Bacsal throughout.

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes / <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
---	--

Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
--	--	------------------------------	------------------

## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Upstream View of Drainage O, Facing East
Photograph 2	Downstream View of Drainage O, Facing West

**Additional notes about the assessment:**



**Classification:** Ephemeral

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
				Present	At least intermittent
			Present	Absent	Need more information
	Few (1-19)	Absent		Present	At least intermittent
			Absent	Absent	Need more information
				Present	At least intermittent
		Present	Present	Absent	Need more information
				Present	At least intermittent
					At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present			At least intermittent
					At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Upstream View of Drainage O,  
Facing East



PHOTOGRAPH 2  
Downstream View of Drainage O,  
Facing West



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage P	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage P		Visit date: 8/20/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (100% cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55858  Long (W): -117.02915  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____	Describe reach boundaries:	
Mean channel width (m) 1.0 m	Reach length (m): <small>40x width; min 40 m; max 200 m.</small>	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		

### Site sketch:



## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
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Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected  <input type="checkbox"/> Yes, &lt; 10% cover  <input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage P, Facing North

**Additional notes about the assessment:**



**Classification:** Ephemeral

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	At least intermittent
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Intermittent
		Present	Present	Present	At least intermittent
	Many (20+)	Absent	Absent	Absent	Intermittent
			Present	Present	At least intermittent
		Present	Absent	Absent	At least intermittent
			Present	Present	Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	At least intermittent
	Few (1-19)	Absent	Present	Present	At least intermittent
		Present	Present	Present	Perennial
	Many (20+)	Absent	Present	Present	At least intermittent
		Present	Present	Present	Perennial
		Absent	Absent	Absent	At least intermittent

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage P, Facing North



## Beta Arid West Streamflow Duration Assessment Method

### General site information

Project name or number: Southwest Village 8868		
Site code or identifier: Drainage Q	Assessor(s): Beth Procsal and Gerry Scheid	
Waterway name: Drainage Q		Visit date: 8/20/21
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input checked="" type="checkbox"/> Cloudy (100% cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Sunny, dry	Coordinates at downstream end (decimal degrees): Lat (N): 32.55876  Long (W): -117.02799  Datum: NAD83
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input checked="" type="checkbox"/> Other natural <input type="checkbox"/> Other: _____		Describe reach boundaries:
Mean channel width (m) 1.0 m	Reach length (m): 40x width; min 40 m; max 200 m.	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input checked="" type="checkbox"/> None		Notes on disturbances or difficult site conditions:
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools		Comments on observed hydrology:

### Site sketch:



## 1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

## 2 and 3. Aquatic invertebrates

<p><b>2. How many aquatic invertebrates are quantified in a 15-minute search?</b></p> <p>Number of individuals quantified: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p><b>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</b></p> <p>Yes / <input checked="" type="checkbox"/> No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: <a href="#">Dieter Tracey</a></p> </div> <div style="text-align: center;">  <p>Plecoptera larva <a href="#">Tracey Saxby</a></p> </div> <div style="text-align: center;">  <p>Trichoptera larva <a href="#">Tracey Saxby</a></p> </div> </div>
---	--

Notes on aquatic invertebrates:

## 4. Algal Cover

<p><b>Are algae found on the streambed?</b></p> <p><input type="checkbox"/> Check if <u>all</u> observed algae appear to be deposited from an upstream source.</p>	<p><input checked="" type="checkbox"/> Not detected</p> <p><input type="checkbox"/> Yes, &lt; 10% cover</p> <p><input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
--	--	------------------------------	------------------

## 5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**Supplemental information** E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

### Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
Photograph 1	Downstream View of Drainage Q, Facing North

**Additional notes about the assessment:**

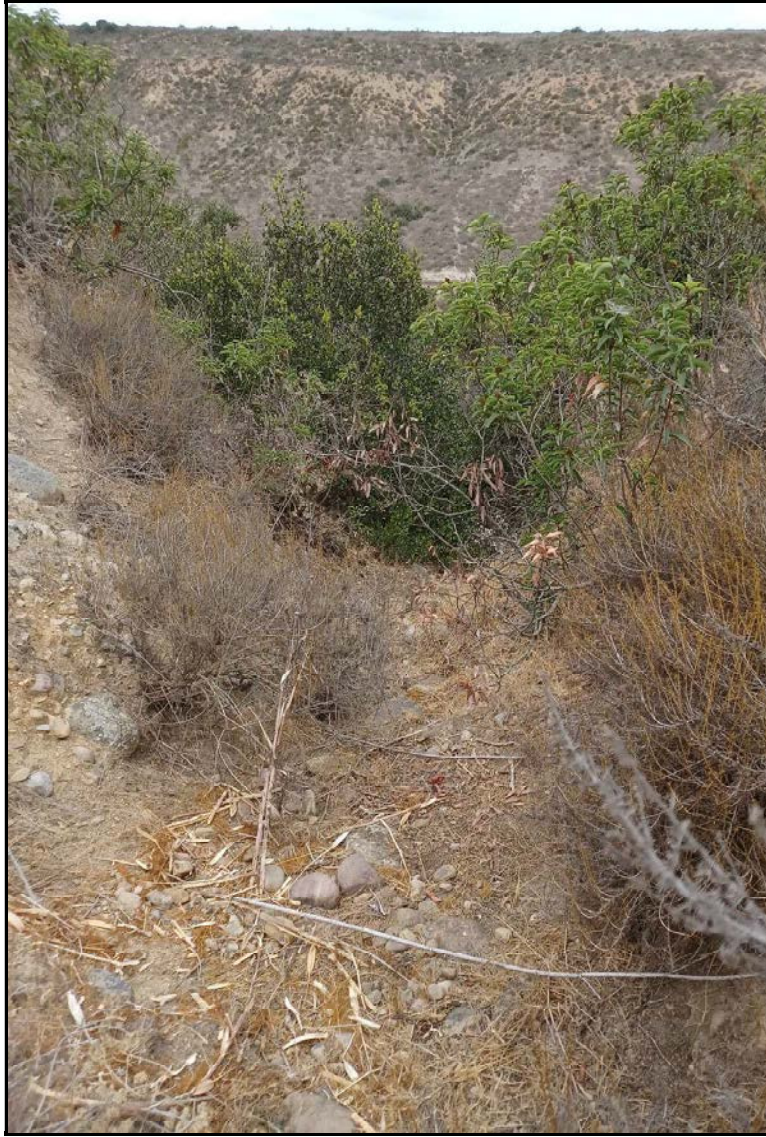


**Classification:** Ephemeral

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover $\geq 10\%$	Classification
None	None	Absent	Absent	Absent	Ephemeral
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Many (20+)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
Few (1-2)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Present	Present	At least intermittent
			Absent	Absent	Need more information
		Present	Absent	Absent	Need more information
			Present	Present	At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
Many (3+)	None	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
			Absent	Absent	Need more information
	Few (1-19)	Absent	Absent	Absent	Need more information
		Present	Present	Present	At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
			Present	Present	At least intermittent
		Present	Absent	Absent	Need more information
	Many (20+)	Present	Absent	Absent	Need more information
			Present	Present	At least intermittent

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.





PHOTOGRAPH 1  
Downstream View of Drainage Q, Facing North



## ATTACHMENT 9

### References Cited



## References Cited

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## ATTACHMENT 6

### Wildlife Species Observed



**Attachment 6**  
**Wildlife Species Observed**

Scientific Name	Common Name	Occupied Habitat	On-Site Abundance/ Seasonality (Birds Only)	Evidence of Occurrence
<b>INVERTEBRATES</b> (Nomenclature for fairy shrimp from Eriksen and Belk 1999; for spiders and insects from Evans 2008; for butterflies from San Diego Natural History Museum 2002)				
<b>BRANCHINECTIDAE</b>	<b>FAIRY SHRIMP</b>			
<i>Branchinecta sandiegonensis</i>	San Diego fairy shrimp	VP		O
<b>STREPTOCEPHALIDAE</b>	<b>FAIRY SHRIMP</b>			
<i>Streptocephalus woottoni</i>	Riverside fairy shrimp	VP		O
<b>APIDAE</b>	<b>HONEY BEES, BUMBLE BEES, AND ALLIES</b>			
<i>Apis mellifera</i>	honey bee (I)	MSS		O
<i>Bombus crotchii</i>	Crotch's bumble bee	MSS, DMSS		O
<b>FORMICIDAE</b>	<b>ANTS</b>			
<i>Pogonomyrmex californicus</i>	California harvester ant	CSS		O
<b>POMPILIDAE</b>	<b>SPIDER WASPS</b>			
<i>Pepsis species</i>	tarantula hawk	MSS		O
<b>THERAPHOSIDAE</b>	<b>TARANTULAS</b>			
<i>Aphonopelma eutylenum</i>	California Ebony tarantula	NNG		O
<b>HESPERIIDAE</b>	<b>SKIPPERS</b>			
<i>Erynnis funeralis</i>	funereal duskywing	CSS, DL		O
<b>PAPILIONIDAE</b>	<b>PARNASSIANS &amp; SWALLOWTAILS</b>			
<i>Papilio zelicaon</i>	anise swallowtail	MSS, NNG		O
<b>PIERIDAE</b>	<b>WHITES &amp; SULPHURS</b>			
<i>Anthocharis cethura</i>	desert [=Felder's] orangetip	MSS, DMSS, NNG		O
<i>Anthocharis sara sara</i>	Pacific Sara orangetip	MSS, DMSS, CSS, NNG		O
<i>Colias eurytheme</i>	orange [=alfalfa] sulphur	MSS, NNG, DL		O
<i>Pieris rapae</i>	cabbage white (I)	MSS, CSS, NNG, DL		O
<i>Pontia protodice</i>	checkered [=common] white	CSS, NNG		O
<b>LYCAENIDAE</b>	<b>BLUES, COPPERS, &amp; HAIRSTREAKS</b>			
<i>Brephidium exile</i>	western pygmy-blue	CSS, NNG, DL		O



**Attachment 6**  
**Wildlife Species Observed**

Scientific Name	Common Name	Occupied Habitat	On-Site Abundance/ Seasonality (Birds Only)	Evidence of Occurrence
<i>Icaricia acmon acmon</i>	Acmon blue	CSS, NNG		O
<i>Leptotes marina</i>	marine blue	CSS, DCSS, NNG		O
<b>RIODINIDAE</b>	<b>METALMARKS</b>			
<i>Apodemia mormo virgulti</i>	Behr's metalmark	CSS, MSS, NNG		O
<b>NYMPHALIDAE</b>	<b>BRUSH-FOOTED BUTTERFLIES</b>			
<i>Coenonympha californica californica</i>	common California ringlet	MSS		O
<i>Euphydryas editha quino</i>	Quino checkerspot	NNG		O
<i>Junonia coenia grisea</i>	common buckeye	MSS, DMSS, NNG		O
<i>Nymphalis antiopa</i>	mourning cloak	MSS, NNG		O
<i>Vanessa annabella</i>	west coast lady	MSS, NNG, DL		O
<i>Vanessa cardui</i>	painted lady	MSS, NNG		O
<b>SPHINGIDAE</b>	<b>HAWK MOTHS AND SPHINX MOTHS</b>			
<i>Hyles lineata</i>	white-lined sphinx moth	CSS, MSS, DMSS		O
<b>AMPHIBIANS</b> (Nomenclature from Crother et al. 2017)				
<b>BUFONIDAE</b>	<b>TRUE TOADS</b>			
<i>Anaxyrus boreas halophilus</i>	southern California toad	WET		O
<b>HYLIDAE</b>	<b>TREE FROGS</b>			
<i>Pseudacris hypochondriaca</i>	Baja California treefrog	WET		O
<b>PELOBATIDAE</b>	<b>SPADEFOOT TOADS</b>			
<i>Spea hammondi</i>	western spadefoot	WET		O
<b>REPTILES</b> (Nomenclature from Crother 2008)				
<b>PHRYNOSOMATIDAE</b>	<b>SPINY LIZARDS</b>			
<i>Phrynosoma blainvillii</i> [= <i>P. coronatum</i> coastal population]	coast horned lizard	DCSS		O
<i>Sceloporus occidentalis</i>	western fence lizard	CSS, DCSS, DL		O
<i>Sceloporus orcutti</i>	granite spiny lizard	CSS, NNG		O
<i>Uta stansburiana</i>	common side-blotched lizard	CSS, NNG		O



**Attachment 6**  
**Wildlife Species Observed**

Scientific Name	Common Name	Occupied Habitat	On-Site Abundance/ Seasonality (Birds Only)	Evidence of Occurrence
<b>TEIIDAE</b>	<b>WHIPTAIL LIZARDS</b>			
<i>Aspidoscelis hyperythra</i>	orange-throated whiptail	MSS		O
<b>ANGUIDAE</b>	<b>ALLIGATOR LIZARDS</b>			
<i>Elgaria multicarinata webbia</i>	San Diego alligator lizard	MSS		O
<b>COLUBRIDAE</b>	<b>COLUBRID SNAKES</b>			
<i>Pituophis catenifer catenifer</i>	Pacific gopher snake	MSS		O
<i>Coluber lateralis lateralis</i>	California striped racer	CSS		O
<i>Hypsiglena ochrorhyncha nuchalata</i>	California nightsnake	MSS		O
<i>Lampropeltis getula californiae</i>	California kingsnake	MSS		O
<i>Pituophis catenifer annectens</i>	San Diego gopher snake	CSS		O
<i>Thamnophis hammondi</i>	two-striped gartersnake	VP		O
<b>CROTALIDAE</b>	<b>RATTLESNAKES</b>			
<i>Crotalus ruber</i>	red diamond rattlesnake	CSS		O
<i>Crotalus oreganus helleri</i>	southern Pacific rattlesnake	MSS		O
<b>BIRDS</b> (Nomenclature from Chesser et al. 2021)				
<b>ODONTOPHORIDAE</b>	<b>NEW WORLD QUAIL</b>			
<i>Callipepla californica californica</i>	California quail	MSS	C / Y	O, V
<b>CATHARTIDAE</b>	<b>NEW WORLD VULTURES</b>			
<i>Cathartes aura</i>	turkey vulture	MSS, DMSS	C / M, S	O
<b>ACCIPITRIDAE</b>	<b>HAWKS, KITES, &amp; EAGLES</b>			
<i>Accipiter cooperii</i>	Cooper's hawk	CSS, MSS	C / Y	O, V
<i>Aquila chrysaetos</i>	golden eagle	DL	U / S	O
<i>Buteo jamaicensis</i>	red-tailed hawk	CSS, MSS	C / Y	O, V
<i>Circus hudsonius</i>	northern harrier	CSS, NNG	C / Y	O
<i>Elanus leucurus</i>	white-tailed kite	CSS, NNG	C / Y	O
<i>Haliaeetus leucocephalus</i>	bald eagle	DL	U / W	O



**Attachment 6**  
**Wildlife Species Observed**

Scientific Name	Common Name	Occupied Habitat	On-Site Abundance/ Seasonality (Birds Only)	Evidence of Occurrence
<b>FALCONIDAE</b>	<b>FALCONS &amp; CARACARAS</b>			
<i>Falco columbarius</i>	merlin	NNG	U / W	O
<i>Falco sparverius sparverius</i>	American kestrel	CSS, NNG	C / Y	O, V
<b>CHARADRIIDAE</b>	<b>LAPWINGS &amp; PLOVERS</b>			
<i>Charadrius vociferus vociferus</i>	killdeer	DCSS, NNG, DL	F / Y	O, V
<b>LARIDAE</b>	<b>GULLS, TERNS, &amp; SKIMMERS</b>			
<i>Larus occidentalis wymani</i>	western gull	NNG	F / Y	O
<b>COLUMBIDAE</b>	<b>PIGEONS &amp; DOVES</b>			
<i>Streptopelia decaocto</i>	Eurasian collared-dove (I)	NNG	C / Y	O, V
<i>Zenaida macroura marginella</i>	mourning dove	CSS, MSS, DMSS, NNG	C / Y	O, V
<b>CUCULIDAE</b>	<b>CUCKOOS &amp; ROADRUNNERS</b>			
<i>Geococcyx californianus</i>	greater roadrunner	MSS, CSS	C / Y	O
<b>STRIGIDAE</b>	<b>TYPICAL OWLS</b>			
<i>Athene cunicularia</i>	western burrowing owl	CSS	U / Y, W	O
<b>CAPRIMULGIDAE</b>	<b>GOATSUCKERS</b>			
<i>Chordeiles acutipennis texensis</i>	lesser nighthawk	CSS	U / S	O
<b>APODIDAE</b>	<b>SWIFTS</b>			
<i>Aeronautes saxatalis</i>	white-throated swift	NNG	C / Y	O, V
<b>TROCHILIDAE</b>	<b>HUMMINGBIRDS</b>			
<i>Calypte anna</i>	Anna's hummingbird	CSS, MSS, NNG, DL	C / Y	O, V
<i>Calypte costae</i>	Costa's hummingbird	MSS, NNG	C / S	O, V
<i>Selasphorus sasin</i>	Allen's hummingbird	MSS, CSS	U / M	O, V
<b>PICIDAE</b>	<b>WOODPECKERS &amp; SAPSUCKERS</b>			
<i>Colaptes auratus</i>	northern flicker	CSS	C / Y	O, V
<i>Dryobates [=Picoides] nuttallii</i>	Nuttall's woodpecker	CSS	C / Y	O, V
<b>TYRANNIDAE</b>	<b>TYRANT FLYCATCHERS</b>			
<i>Empidonax difficilis</i>	Pacific-slope flycatcher	MSS	C / S	O, V



Attachment 6  
Wildlife Species Observed

Scientific Name	Common Name	Occupied Habitat	On-Site Abundance/ Seasonality (Birds Only)	Evidence of Occurrence
<i>Myiarchus cinerascens cinerascens</i>	ash-throated flycatcher	MSS, DMSS	F / S	O
<i>Sayornis nigricans semiatra</i>	black phoebe	CSS, DL	C / Y	O
<i>Sayornis saya</i>	Say's phoebe	CSS	C / W	O
<i>Tyrannus verticalis</i>	western kingbird	MSS	U / S	O
<i>Tyrannus vociferans vociferans</i>	Cassin's kingbird	MSS, NNG	C / Y	O
<b>VIREONIDAE</b>	<b>VIREOS</b>			
<i>Vireo bellii pusillus</i>	least Bell's vireo	MFS	F / S	V
<i>Vireo gilvus swainsonii</i>	warbling vireo	MFS	F / S	O
<b>CORVIDAE</b>	<b>CROWS, JAYS, &amp; MAGPIES</b>			
<i>Aphelocoma californica</i>	California scrub-jay		C / Y	
<i>Corvus brachyrhynchos hesperis</i>	American crow	CSS, DCSS	C / Y	O, V
<i>Corvus corax clarionensis</i>	common raven	CSS, MSS	C / Y	O, V
<b>ALAUDIDAE</b>	<b>LARKS</b>			
<i>Eremophila alpestris actia</i>	California horned lark	DCSS, NNG	C / Y	O, V
<b>HIRUNDINIDAE</b>	<b>SWALLOWS</b>			
<i>Petrochelidon pyrrhonota tachina</i>	cliff swallow	NNG	C / S	O, V
<i>Stelgidopteryx serripennis</i>	northern rough-winged swallow	NNG	C / S	O, V
<b>AEGITHALIDAE</b>	<b>BUSHTIT</b>			
<i>Psaltiriparus minimus melanurus</i>	bushtit	CSS, MSS	C / Y	O, V
<b>TROGLODYTIDAE</b>	<b>WRENS</b>			
<i>Salpinctes obsoletus obsoletus</i>	rock wren	NNG, DL	C / Y	O, V
<i>Thryomanes bewickii</i>	Bewick's wren	CSS, MSS, NNG	C / Y	O, V
<i>Troglodytes aedon parkmanii</i>	house wren	CSS, MSS, NNG	C / Y	O, V
<b>SYLVIIDAE</b>	<b>GNATCATCHERS</b>			
<i>Polioptila caerulea</i>	blue-gray gnatcatcher	CSS, MSS	C / Y	O, V
<i>Polioptila californica californica</i>	coastal California gnatcatcher	CSS, MSS	C / Y	O, V
<b>TIMALIIDAE</b>	<b>BABBLERS</b>			
<i>Chamaea fasciata henshawi</i>	wrentit	CSS, MSS, DMSS	C / Y	O, V



**Attachment 6**  
**Wildlife Species Observed**

Scientific Name	Common Name	Occupied Habitat	On-Site Abundance/ Seasonality (Birds Only)	Evidence of Occurrence
<b>MIMIDAE</b>	<b>MOCKINGBIRDS &amp; THRASHERS</b>			
<i>Mimus polyglottos polyglottos</i>	northern mockingbird	CSS, DCSS, MSS, NNG	C / Y	O, V
<i>Toxostoma redivivum redivivum</i>	California thrasher	MSS	C / Y	O, V
<b>STURNIDAE</b>	<b>STARLINGS &amp; MYNAS</b>			
<i>Sturnus vulgaris</i>	European starling (I)	NNG	C / Y	O, V
<b>BOMBYCILLIDAE</b>	<b>WAXWINGS</b>			
<i>Bombycilla cedrorum</i>	cedar waxwing	CSS	U / W	O
<b>PARULIDAE</b>	<b>WOOD WARBLERS</b>			
<i>Cardellina [=Wilsonia] pusilla</i>	Wilson's warbler	CSS, MFS	F / M	O
<i>Geothlypis trichas</i>	common yellowthroat	CSS	F / Y	O, V
<i>Icteria virens</i>	yellow-breasted chat	CSS	F / Y	V
<i>Mniotilta varia</i>	black-and-white warbler	CSS, MFS	U / W	O
<i>Oreothlypis [=Vermivora] celata</i>	orange-crowned warbler	CSS, MSS, NNG	F / Y	O
<i>Setophaga [=Dendroica] coronata</i>	yellow-rumped warbler	MFS	U / W	O, V
<i>Setophaga [=Dendroica] nigrescens</i>	black-throated gray warbler	CSS	U / M	O
<i>Setophaga [=Dendroica] occidentalis</i>	hermit warbler	CSS, MFS	U / M	O
<i>Setophaga [=Dendroica] petechia</i>	yellow warbler	MFS	F / S	V
<b>EMBERIZIDAE</b>	<b>EMBERIZIDS</b>			
<i>Aimophila ruficeps canescens</i>	southern California rufous-crowned sparrow	CSS, NNG	C / Y	O
<i>Ammodramus savannarum</i>	grasshopper sparrow	CSS	F / Y	V
<i>Melospiza melodia</i>	song sparrow	CSS, MSS	C / Y	O
<i>Melospiza [=Pipilo] crissalis</i>	California towhee	CSS, NNG	C / Y	O
<i>Passerculus sandwichensis nevadensis</i>	western savannah sparrow	CSS, DCSS, MSS	C / Y	O
<i>Pipilo maculatus</i>	spotted towhee	NNG	C / Y	O, V
<i>Zonotrichia leucophrys</i>	white-crowned sparrow	CSS, NNG	C / W	
<b>CARDINALIDAE</b>	<b>CARDINALS &amp; GROSBEAKS</b>			
<i>Cardinalis cardinalis</i>	northern cardinal	DL	U / V	O
<i>Passerina caerulea salicaria</i>	blue grosbeak	MFS	F / S	O
<i>Passerina amoena</i>	lazuli bunting	CSS, MSS	U / M	O



**Attachment 6**  
**Wildlife Species Observed**

Scientific Name	Common Name	Occupied Habitat	On-Site Abundance/ Seasonality (Birds Only)	Evidence of Occurrence
<b>ICTERIDAE</b>	<b>BLACKBIRDS &amp; NEW WORLD ORIOLES</b>			
<i>Agelaius phoeniceus</i>	red-winged blackbird	MSS	C / Y	O, V
<i>Icterus cucullatus nelsoni</i>	hooded oriole	NNG	C / S	V
<i>Molothrus ater</i>	brown-headed cowbird	NNG	C / Y	V
<i>Sturnella neglecta</i>	western meadowlark	CSS, NNG	C / Y	O, V
<b>FRINGILLIDAE</b>	<b>FINCHES</b>			
<i>Haemorhous [=Carpodacus] mexicanus frontalis</i>	house finch	MSS, NNG	C / Y	O, V
<i>Spinus [=Carduelis] psaltria hesperophilus</i>	lesser goldfinch	NNG, DL	C / Y	O, V
<b>MAMMALS</b> (Nomenclature from Bradley et al. (2014))				
<b>SORICIDAE</b>	<b>SHREWS</b>			
<i>Soricidae</i> sp.	shrew	MSS		T
<b>LEPORIDAE</b>	<b>RABBITS &amp; HARES</b>			
<i>Lepus californicus bennettii</i>	San Diego black-tailed jackrabbit	NNG, CSS		O
<i>Sylvilagus bachmani</i>	brush rabbit	MSS		O
<i>Sylvilagus audubonii</i>	desert cottontail	CSS, MSS, NNG, DL		O
<b>SCIURIDAE</b>	<b>SQUIRRELS &amp; CHIPMUNKS</b>			
<i>Spermophilus beecheyi</i>	California ground squirrel	CSS, DCSS, MSS, NNG		O
<b>GEOMYIDAE</b>	<b>POCKET GOPHERS</b>			
<i>Thomomys bottae</i>	Botta's pocket gopher	NNG		O
<b>HETEROMYIDAE</b>	<b>POCKET MICE &amp; KANGAROO RATS</b>			
<i>Chaetodipus</i> sp.	pocket mouse	MSS		T
<i>Dipodomys simulans</i>	Dulzura kangaroo rat	NNG		T
<b>MURIDAE</b>	<b>MICE &amp; RATS</b>			
<i>Microtus californicus</i>	California vole	MFS		T
<i>Peromyscus maniculatus</i>	deer mouse	CSS, DCSS, MSS, NNG		T
<i>Reithrodontomys megalotis</i>	western harvest mouse	MFS		T
<i>Neotoma lepida intermedia</i>	San Diego desert woodrat	NNG, CSS		O, M



Attachment 6  
Wildlife Species Observed

Scientific Name	Common Name	Occupied Habitat	On-Site Abundance/ Seasonality (Birds Only)	Evidence of Occurrence
<i>Neotoma bryanto</i>	Bryant's (San Diego) woodrat	NNG		T
<i>Neotoma macrotis</i>	big-eared woodrat	MFS		S, T
<b>CANIDAE</b>	<b>CANIDS</b>			
<i>Canis familiaris</i>	domestic dog (l)	NNG		T, S
<i>Canis latrans</i>	coyote	MFS, CSS		O, S
<i>Urocyon cinereoargenteus</i>	common gray fox	MSS		S, T
<b>PROCYONIDAE</b>	<b>PROCYONIDS</b>			
<i>Procyon lotor</i>	northern raccoon	CSS		O
<b>MUSTELIDAE</b>	<b>WEASELS, OTTERS, &amp; BADGERS</b>			
<i>Mustela frenata</i>	long-tailed weasel	MSS		T
<b>MEPHITIDAE</b>	<b>SKUNKS</b>			
<i>Mephitis mephitis</i>	striped skunk	MSS		T
<b>FELIDAE</b>	<b>CATS</b>			
<i>Lynx rufus</i>	bobcat	DL, NNG, MFS		S, T



## Attachment 6

### Wildlife Species Observed

(I) = Introduced species

#### HABITATS

CSS = Diegan coastal sage scrub  
 DCSS = disturbed Diegan coastal sage scrub  
 DEV = urban/developed  
 DL = disturbed land  
 DMSS = disturbed maritime succulent scrub  
 MFS = mule fat scrub  
 MSS = maritime succulent scrub  
 NNG = non-native grassland  
 SWS = southern willow scrub  
 VP = vernal pools  
 WET = wetlands

#### EVIDENCE OF OCCURRENCE

M = Midden  
 O = Observed  
 S = Scat  
 T = Track  
 V = Vocalization

#### ABUNDANCE (birds only; based on Garrett and Dunn 1981)

C = Common to abundant; almost always encountered in proper habitat, usually in moderate to large numbers  
 F = Fairly common; usually encountered in proper habitat, generally not in large numbers  
 U = Uncommon; occurs in small numbers or only locally

#### SEASONALITY (birds only)

A = Accidental; species not known to occur under normal conditions; may be an off-course migrant  
 M = Migrant; uses site for brief periods of time, primarily during spring and fall months  
 S = Spring/summer resident; probable breeder on-site or in vicinity  
 T = Transient; uses site regularly but unlikely to breed on-site  
 V = Rare vagrant  
 W = Winter visitor; does not breed locally  
 Y = Year-round resident; probable breeder on-site or in vicinity



## ATTACHMENT 7

Sensitive Plant Species Observed or with the  
Potential to Occur within the Program-level and Project-level  
Analysis Areas



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<b>BRYOPHYTES</b>							
<b>SPHAEROCARPACEAE</b>							
<i>Geothallus tuberosus</i> Campbell's liverwort	—/—	1B.1	—	Ephemeral liverwort; mesic coastal sage scrub, vernal pools; elevation below 2,000 feet. California endemic. Known from San Diego and Riverside counties. Recently reported from Camp Pendleton, likely extirpated elsewhere in urbanized San Diego County.	No	Low	This species was not observed during focused rare plant surveys. Although natural vernal pool habitat was observed within the project parcels, many of the vernal pools undergo frequent disturbance thereby making the potential for this species to occur on-site as low.
<i>Sphaerocarpos drewei</i> bottle liverwort	—/—	1B.1	—	Ephemeral liverwort; openings in chaparral and coastal sage scrub; elevation 300–2,000 feet. California endemic. Known from San Diego and Riverside counties.	No	Low	This species was not observed during focused rare plant surveys. The site contains very few suitably mesic areas which are preferred by this species. Any potentially suitable locales appear to be disturbed by vehicular traffic and/or invaded by non-native plant species, thereby making the potential for this species to occur on-site as low.
<b>LYCOPODS</b>							
<b>SELAGINELLACEAE SPIKE-MOSS FAMILY</b>							
<i>Selaginella cinerascens</i> ashy spike-moss	—/—	4.1	—	Perennial rhizomatous herb; chaparral, coastal scrub; elevation 65–2,100 feet.	Yes	Observed	This species was <b>observed</b> on undisturbed mesa tops within maritime succulent scrub habitat, scattered throughout the project-level areas, including the vernal pool restoration area.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
ANGIOSPERMS: DICOTS							
CHENOPODIACEAE GOOSEFOOT FAMILY							
<i>Aphanisma blitoides</i> aphanisma	—/—	1B.2	NE, MSCP	Annual herb; coastal bluff scrub, coastal sage scrub; sandy soils; blooms March–June; elevation less than 1,000 feet.	No	Low	Surveys were conducted during times when this species would have been apparent, if present, and results were negative. However, due to the presence of coastal sage scrub on-site, there is a low potential for the species to occur.
<i>Atriplex pacifica</i> south coast saltbush/south coast saltscale	—/—	1B.2	—	Annual herb; coastal bluff scrub, coastal dunes, coastal sage scrub, playas; blooms March–October; elevation less than 500 feet.	Yes	Observed	This species was <b>observed</b> within the disturbed areas of the Beyer Boulevard alignment and on mesa top of the southwestern edge of the project-level analysis area within disturbed maritime succulent scrub and non-native grassland habitat.
CONVOLVULACEAE MORNING-GLORY FAMILY							
<i>Dichondra occidentalis</i> western dichondra	—/—	4.2	—	Perennial herb; chaparral, cismontane woodland, coastal sage scrub, where it often grows hidden beneath shrubs; blooms January–July; elevation less than 1,640 feet.	Yes	High	This species was observed within the maritime succulent scrub within Phase 1b within the Beyer Boulevard alignment.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<b>APIACEAE CARROT FAMILY</b>							
<i>Eryngium aristulatum</i> var. <i>parishii</i> San Diego button-celery	CE/FE	1B.1	NE, MSCP	Biennial/perennial herb; vernal pools, mesic areas of coastal sage scrub and grasslands, blooms April–June; elevation less than 2,000 feet. Known from San Diego and Riverside counties. Additional populations occur in Baja California, Mexico.	Yes	Observed	This species was <b>observed</b> within one vernal pool on the mesa top within Phase 1b (see Figure 26.3) and within the non-native grassland, outside of a vernal pool, within the southern vernal pool restoration area. This species is also documented in the program-level area through Vernal Pool Habitat Conservation Plan (VPHCP) during City of San Diego mapping efforts.
<b>ASTERACEAE SUNFLOWER FAMILY</b>							
<i>Ambrosia chenopodiifolia</i> San Diego bur-sage	–/–	2B.1	–	Perennial shrub; coastal sage scrub; cobbly loam soils; blooms April–June; elevation 150–500 feet. Known in California from fewer than 15 occurrences all of which are in San Diego County. Additional populations in Baja California, Mexico.	Yes	Observed	This species was <b>observed</b> throughout the project-level analysis area within maritime succulent scrub and Diegan coastal sage scrub habitats, as well as within disturbed areas such as roads and trails on site.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<i>Ambrosia pumila</i> San Diego ambrosia	–/FE	1B.1	NE, MSCP	Perennial herb (rhizomatous); chaparral, coastal sage scrub, valley and foothill grasslands, creek beds, vernal pools, often in disturbed areas; blooms May–September; elevation less than 1,400 feet. Many occurrences extirpated in San Diego County. Potential habitat in San Diego County is along creek beds, seasonally dry drainages, and floodplains along the edge of willow woodland, in riverwash or sandy alluvial soils from the San Luis Rey River south to the Sweetwater River (Beauchamp 1986).	No	Low	No individuals were observed within the project-level analysis survey area during the rare plant surveys. However, there is a low potential to occur within the survey area due to the presence of coastal sage scrub, non-native grassland, and vernal pools on-site.
<i>Baccharis vanessae</i> Encinitas baccharis [=Encinitas coyote brush]	CE/FT	1B.1	NE, MSCP	Perennial deciduous shrub; chaparral; maritime; sandstone; blooms August–November; elevation less than 2,500 feet. San Diego County endemic. Known from fewer than 20 occurrences. Extirpated from Encinitas area.	No	Low	This species is not expected to occur as the project-level analysis area is out of the species' known range, and no individuals were observed within the survey area during rare plant and other field surveys.
<i>Bahiopsis</i> [= <i>Viguiera</i> ] <i>laciniata</i> San Diego viguiera [=San Diego County viguiera]	–/–	4.3	–	Perennial shrub; chaparral, coastal sage scrub; blooms February–June; elevation less than 2,500 feet.	Yes	Observed	This species was <b>observed</b> in Phase 1a and 1b, 2a and 2b. Individuals occur both scattered and in groups within maritime succulent scrub and Diegan coastal sage scrub habitats.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<i>Deinandra</i> [= <i>Hemizonia</i> ] <i>conjugens</i> Otay tarplant	CE/FT	1B.1	NE, MSCP	Annual herb; clayey soils of coastal scrub openings, valley and foothill grassland; blooms April–June, elevation less than 1,000 feet.	Yes	Observed	This species was <b>observed</b> within the maritime succulent scrub and Diegan coastal sage scrub within the Beyer Boulevard alignment. Additionally, this species has been known to occur within a 1-mile buffer of the survey area (CDFW 2019a).
<i>Holocarpha virgata</i> ssp. <i>elongata</i> graceful tarplant	–/–	4.2	–	Annual herb; coastal sage scrub, cismontane woodland, valley and foothill grasslands, chaparral; blooms July–November; elevation 200–3,600 feet. California endemic. Known from San Diego, Riverside, and Orange counties.	No	Moderate	This species was not observed, but has a moderate potential to occur within the survey area due to the presence of coastal sage scrub and non-native grassland on-site.
<i>Isocoma menziesii</i> var. <i>decumbens</i> decumbent goldenbush	–/–	1B.2	–	Perennial shrub; chaparral, coastal sage scrub; sandy soils, often in disturbed areas; blooms April–November; elevation less than 500 feet.	Yes	Observed	This species was <b>observed</b> within Phase 1a. Two individuals were noted within the Diegan coastal sage scrub habitat.
<i>Microseris douglasii</i> ssp. <i>platycarpha</i> small-flowered microseris	–/–	4.2	–	Annual herb; Clay lenses on perennial grasslands, vernal pools, openings in coastal sage scrub; blooms March–May; elevation 50–3,500 feet.	No	Moderate	This species was not observed, but has a moderate potential to occur within the survey area due to the presence of non-native grassland on-site.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<i>Pentachaeta aurea</i> ssp. <i>aurea</i> golden-ray pentachaeta	–/–	4.2	–	Annual herb; cismontane woodland, coastal sage scrub, lower montane coniferous forest, perennial grasslands; blooms March–July; elevation 260–6,100 feet.	Yes	High	This species was not observed within the project-level analysis area but was observed growing along the edges of the southern vernal pool restoration area within non-native grassland habitat.
<b>BORAGINACEAE      BORAGE FAMILY</b>							
<i>Harpagonella palmeri</i> Palmer's grapplinghook	–/–	4.2	–	Annual herb; chaparral, coastal sage scrub, valley and foothill grasslands; clay soils; blooms March–May; elevation less than 3,200 feet. Inconspicuous and easily overlooked.	Yes	Observed	This plant species was <b>observed</b> within the southern portion of the vernal pool restoration area, in non-native grassland and disturbed areas. It was frequently found to be scattered within large patches of low-growing annual flowers and along roadsides.
<b>CACTACEAE      CACTUS FAMILY</b>							
<i>Cylindropuntia californica</i> var. <i>californica</i> [= <i>Opuntia parryi</i> var. <i>serpentina</i> ] snake cholla	–/–	1B.1	NE, MSCP	Perennial stem succulent; chaparral, coastal sage scrub; blooms April–May; elevation 100–500 feet.	Yes	Observed	This plant species was <b>observed</b> within the survey area within Moody Canyon north of the Beyer Boulevard extension and within mitigation lands in maritime succulent scrub.
<i>Ferocactus viridescens</i> San Diego barrel cactus	–/–	2B.1	MSCP	Perennial stem succulent; chaparral, coastal sage scrub, valley and foothill grasslands, vernal pools; blooms May–June; elevation less than 1,500 feet.	Yes	Observed	This plant species was <b>observed</b> growing in undisturbed maritime succulent scrub habitat particularly on canyon edges within the project-level analysis area.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<i>Dudleya brevifolia</i> [= <i>D. blochmaniae</i> ssp. <i>brevifolia</i> ] short-leaved dudleya [short- leaved live-forever]	CE/–	1B.1	NE, MSCP	Perennial herb; southern maritime chaparral, coastal sage scrub on Torrey sandstone; blooms in April; elevation less than 1,000 feet. San Diego County endemic. Known from fewer than five occurrences in the Del Mar and La Jolla areas.	No	Low	This perennial species was not observed and would have been apparent at the time of field surveys, if present. However, this species has a low potential to occur due to the presence of Diegan coastal sage scrub habitat on-site.
<i>Dudleya variegata</i> variegated dudleya	–/–	1B.2	NE, MSCP	Perennial herb; openings in chaparral, coastal sage scrub, grasslands, vernal pools; blooms May–June; elevation less than 1,900 feet.	Yes	Observed	This species was <b>observed</b> growing in two separate clumps, within the mitigation lands. They were located immediately north of the vernal pool restoration area and within Diegan coastal sage scrub habitat.
<b>EUPHORBIACEAE      SPURGE FAMILY</b>							
<i>Euphorbia misera</i> cliff spurge	–/–	2B.2	–	Shrub; coastal sage scrub, maritime succulent scrub, coastal bluff scrub; blooms December–August; elevation less than 2,000 feet.	Yes	Observed	This species was <b>observed</b> growing within south and west-facing slopes within maritime succulent scrub habitat within the northern part of the project-level analysis area and within the mitigation lands.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<b>FABACEAE      LEGUME FAMILY</b>							
<i>Astragalus tener</i> var. <i>titi</i> coastal dunes milkvetch	CE/FE	1B.1	NE, MSCP	Annual herb; coastal bluff scrub, coastal dunes, sandy soils, mesic coastal prairie; blooms March–May; elevation less than 200 feet. California endemic. Known from fewer than 10 occurrences in San Diego (presumed extirpated), Los Angeles (presumed extirpated), and Monterey counties.	No	Low	This species was not observed during field surveys, and not expected to occur within the survey area due to the lack of suitable habitats.
<b>LAMIACEAE      MINT FAMILY</b>							
<i>Acanthomintha ilicifolia</i> San Diego thornmint	CE/FT	1B.1	NE, MSCP	Annual herb; chaparral, coastal sage scrub, and grasslands; friable or broken clay soils; blooms April–June; elevation less than 3,200 feet.	No	Low	This species was not observed on-site; however, there is a low potential to occur due to the presence of clay soils, non-native grassland, and Diegan coastal sage scrub habitats.
<i>Pogogyne abramsii</i> San Diego mesa mint	CE/FE	1B.1	NE, MSCP	Annual herb; vernal pools; blooms April–July; elevation 300–700 feet. San Diego County endemic.	No	Low	This species was not observed during focused rare plant surveys. Although natural vernal pool habitat was observed within the project parcels, many of the vernal pools on-site undergo frequent disturbance thereby making the potential for this species to occur as low.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<i>Pogogyne nudiuscula</i> Otay mesa mint	CE/FE	1B.1	NE, MSCP	Annual herb; vernal pools; blooms May–July; elevation 300–820 feet. In California, known from approximately 10 occurrences in Otay Mesa in San Diego County. Additional populations occur in Baja California, Mexico.	No	Low	This species was not observed during focused rare plant surveys. Although this species has been known to occur within a 1-mile buffer of the survey area (CDFW 2019a), many of the vernal pools on-site undergo frequent disturbance thereby making the potential for this species to occur as low.
<b>MONTIACEAE MONTIA FAMILY</b>							
<i>Cistanthe</i> [= <i>Calandrinia</i> ] <i>maritima</i> seaside cistanthe	–/–	4.2	–	Annual herb; coastal bluff scrub, coastal sage scrub, valley and foothill grassland; blooms February–August; elevation less than 1,000 feet.	Yes	Observed	This species was <b>observed</b> within the northern portion of the project-level analysis area and the mitigation lands within maritime succulent scrub habitat.
<b>OROBANCHACEAE BROOM-RAPE FAMILY</b>							
<i>Dicranostegia orcuttiana</i> [= <i>Cordylanthus orcuttianus</i> ] Orcutt's bird's-beak	–/–	2B.1	MSCP	Annual herb (hemiparasitic); coastal sage scrub; blooms March–September; elevation less than 1,200 feet.	No	Moderate	This species was not observed but has a moderate potential to occur within the coastal sage scrub within the project-level analysis area.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<b>POLEMONIACEAE PHLOX FAMILY</b>							
<i>Navarretia fossalis</i> spreading navarretia [=prostrate navarretia]	–/FT	1B.1	NE, MSCP	Annual herb; vernal pools, marshes and swamps, chenopod scrub; blooms April–June; elevation 100–4,300 feet.	No	Low	This species was not observed during focused rare plant surveys. Although this species has been known to occur within a one-mile buffer of the project-level analysis area (CDFW 2019a), many of the vernal pools on-site undergo frequent disturbance thereby making the potential for this species to occur as low.
<b>RHAMNACEAE BUCKTHORN FAMILY</b>							
<i>Adolphia californica</i> California adolphia	–/–	2B.1	–	Perennial deciduous shrub; Diegan coastal sage scrub and chaparral; clay soils; blooms December–May; elevation 100–2,500 feet.	Yes	Observed	This species was <b>observed</b> growing within Diegan coastal sage scrub and maritime succulent scrub habitats along the southern edge of the project-level analysis area
<b>ROSACEAE ROSE FAMILY</b>							
<i>Rosa minutifolia</i> small-leaved rose	CE/–	2B.1	MSCP	Perennial deciduous shrub; coastal sage scrub; blooms January–June; elevation 500–550 feet. Known in the U.S. from only one occurrence on Otay Mesa in San Diego County. This entire occurrence was transplanted to a new preserved location on Otay Mesa for mitigation in 1997. Additional populations occur in Baja California, Mexico.	No	Low	This species was not observed during focused rare plant surveys. Although this species has been known to occur within a one-mile buffer of the project-level analysis area (CDFW 2019a), it has a low potential to occur within the Diegan coastal sage scrub and maritime succulent scrub.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<b>SOLANACEAE NIGHTSHADE FAMILY</b>							
<i>Lycium californicum</i> California box-thorn	–/–	4.2	–	Perennial shrub; coastal bluff scrub, coastal sage scrub; blooms March– August; elevation less than 500 feet.	Yes	Observed	This species was <b>observed</b> growing within maritime succulent scrub habitat along the western end of Beyer Boulevard extension footprint.
<b>ANGIOSPERMS: MONOCOTS</b>							
<b>AGAVACEAE AGAVE FAMILY</b>							
<i>Agave shawii</i> var. <i>shawii</i> Shaw's agave	–/–	2B.1	NE, MSCP	Perennial leaf succulent; coastal bluff scrub, coastal sage scrub, maritime succulent scrub; blooms September– May; elevation less than 400 feet.	No	Low	This species was not observed during field surveys, and is not expected to occur within the project area since the site is out of its known range.
<b>POACEAE GRASS FAMILY</b>							
<i>Hordeum intercedens</i> bobtail barley [=vernal barley]	–/–	3.2	–	Annual herb; coastal dunes, coastal sage scrub, valley and foothill grasslands, vernal pools; blooms March–June; elevation less than 3,300 feet.	Yes	Observed	This species was <b>observed</b> growing in a vernal within the pool restoration area. The project area contains vernal pools, which are a preferred habitat of this species.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<i>Orcuttia californica</i> California Orcutt grass	CE/FE	1B.1	NE, MSCP	Annual herb; vernal pools; blooms April–August; elevation 50–2,200 feet.	No	Low	This species was not observed during focused rare plant surveys. Although this species has been known to occur within a one-mile buffer of the survey area (CDFW 2019a) many of the vernal pools on-site undergo frequent disturbance thereby making the potential for this species to occur as low (project-level areas) and low to moderate (program-level areas).
<i>Stipa diegoensis</i> [= <i>Achnatherum diegoense</i> ] San Diego needle grass	–/–	4.2	–	Perennial herb; rocky soils, chaparral, coastal sage scrub, often near streams; blooms February–June; elevation less than 2,600 feet.	Yes	Observed	This species was <b>observed</b> on-site within the Beyer Boulevard alignment and in the northwestern portion of the residential development area in Phase 1a.
<b>THEMIDACEAE                      BRODIAEA FAMILY</b>							
<i>Bloomeria</i> [= <i>Muilla</i> ] <i>clevelandii</i> San Diego goldenstar	–/–	1B.1	MSCP	Perennial herb (bulbiferous); chaparral, coastal sage scrub, valley and foothill grassland, vernal pools; clay soils; blooms May; elevation 170–1,500 feet.	No	Moderate	This plant species was not observed within the project-level analysis area, but has a moderate potential to occur within the Diegan coastal sage scrub, non-native grassland, and vernal pool habitats.



Attachment 7 Sensitive Plant Species Observed or with the Potential for Occurrence within the Program-level and Project-level Analysis Areas							
Species' <i>Scientific Name</i> Common Name	State/ Federal Status	CNPS Rank	City of San Diego	Habitat/Preference/ Requirements/ Blooming Period	Detected On-Site?	Potential to Occur On-Site?	Determination of Occurrence Potential
<i>Brodiaea filifolia</i> thread-leaved brodiaea [=thread-leaf brodiaea]	CE/FT	1B.1	MSCP, NE	Perennial herb (bulbiferous); cismontane woodland, coastal sage scrub, playas, valley and foothill grassland, vernal pools; often clay soils; blooms March–June; elevation less than 2,850 feet. California endemic. Known from San Diego, Riverside, Orange, Los Angeles, and San Bernardino counties.	No	Moderate	This plant species was not observed within the survey area during focused rare plant surveys, but has a moderate potential to occur within the Diegan coastal sage scrub, non-native grassland, and vernal pool habitats.
<b>FEDERAL CANDIDATES AND LISTED PLANTS</b> FE = Federally listed endangered FT = Federally listed threatened FC = Federal candidate for listing as endangered or threatened				<b>STATE LISTED PLANTS</b> CE = State listed endangered CR = State listed rare CT = State listed threatened			
<b>CALIFORNIA NATIVE PLANT SOCIETY (CNPS): CALIFORNIA RARE PLANT RANKS (CRPR)</b> 1A = Species presumed extinct. 1B = Species rare, threatened, or endangered in California and elsewhere. These species are eligible for state listing. 2A = Plants presumed extirpated in California, but more common elsewhere. 2B = Species rare, threatened, or endangered in California but more common elsewhere. These species are eligible for state listing. 3 = Species for which more information is needed. Distribution, endangerment, and/or taxonomic information is needed. 4 = A watch list of species of limited distribution. These species need to be monitored for changes in the status of their populations. .1 = Species seriously threatened in California (over 80% of occurrences threatened; high degree and immediacy of threat). .2 = Species fairly threatened in California (20-80% occurrences threatened; moderate degree and immediacy of threat). .3 = Species not very threatened in California (<20% of occurrences threatened; low degree and immediacy of threat or no current threats known). CBR = Considered but rejected							
<b>CITY OF SAN DIEGO</b> NE = Narrow endemic MSCP = Multiple Species Conservation Program covered species VPHCP = Vernal Pool Habitat Conservation Plan covered species							



## ATTACHMENT 8

Sensitive Wildlife Species Observed or with the Potential to  
Occur within the Program-level and Project-level Analysis  
Areas



Attachment 8  
Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>INVERTEBRATES</b> (Nomenclature from Eriksen and Belk 1999; San Diego Natural History Museum 2002)					
<b>BRANCHINECTIDAE</b>	<b>FAIRY SHRIMP</b>				
San Diego fairy shrimp <i>Branchinecta sandiegonensis</i>	FE, VPHCP	Vernal pools.	Yes	Observed	This species was <b>observed</b> during focused surveys conducted during the 2017/2018 wet season and the 2018/2019 wet season. San Diego fairy shrimp were found in vernal pools within the project-level analysis area, and the vernal pool restoration area. Additionally, this species has been known to occur within one mile of the survey area (CDFW 2022e).
<b>STREPTOCEPHALIDAE</b>	<b>FAIRY SHRIMP</b>				
Riverside fairy shrimp <i>Streptocephalus woottoni</i>	FE, VPHCP	Vernal pools.	Yes	Observed	This species was <b>observed</b> during focused surveys conducted during the 2018/2019 wet season. This species was detected in one pool within the project-level analysis area. Additionally, this species has been known to occur within one mile of the survey area (CDFW 2022e).



Attachment 8  
Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>APIDAE HONEY BEES, BUMBLE BEES, AND ALLIES</b>					
Crotch's bumble bee <i>Bombus crotchii</i>	SC	A wide range of disturbed and natural habitats including but not limited to exotic and native grasslands, sage scrub, chaparral, great basin sage scrub, and pinon-juniper woodlands with occurrences from sea level to at least 5000 feet.	Yes	Observed	This species was <b>observed</b> during habitat assessments conducted within the mitigation lands. There is a moderate potential within the project-level analysis area due to the presence of suitable grasslands, sage scrub, and chaparral habitats.
<b>NYMPHALIDAE BRUSH-FOOTED BUTTERFLIES</b>					
Quino checkerspot <i>Euphydryas editha quino</i>	FE	Open, dry areas in foothills, mesas, lake margins. Larval host plant <i>Plantago erecta</i> . Adult emergence mid-January through April.	Yes	Observed	This species was <b>observed</b> during the 2019 focused survey effort. A single QCB was observed within the vernal pool restoration area. Additionally, this species has been known to occur within one mile of the survey area (CDFW 2022e).



Attachment 8 Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas					
Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>AMPHIBIANS</b> (Nomenclature from Crother et al. 2008)					
<b>PELOBATIDAE</b>	<b>SPADEFoot TOADS</b>				
Western spadefoot <i>Spea hammondi</i>	FPT, CSC	Vernal pools, floodplains, and alkali flats within areas of open vegetation.	No	Observed	The project has many vernal pools and seasonal basins that provide an ephemeral water source for breeding. Additionally, tadpoles and amphibian eggs were <b>observed</b> during protocol wet season fairy shrimp surveys during 2017/2018 or 2018/2019. This species has been known to occur within one mile of the survey area (CDFW 2022d).
<b>REPTILES</b> (Nomenclature from Crother et al. 2017)					
<b>IGUANIDAE</b>	<b>IGUANID LIZARDS</b>				
Coast horned lizard <i>Phrynosoma blainvillii</i> [= <i>P. coronatum</i> coastal population]	CSC, MSCP	Chaparral, coastal sage scrub with fine, loose soil. Partially dependent on harvester ants for forage.	Yes	Observed	Coast horned lizards were <b>observed</b> on site during field surveys in non-native grassland habitat, and adjacent to Diegan coastal sage scrub habitat. Additionally, this species has been known to occur within one mile of the survey area (CDFW 2022d).



Attachment 8  
Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>SCINCIDAE</b> <b>SKINKS</b>					
Coronado skink <i>Plestiodon [=Eumeces] skiltonianus interparietalis</i>	CSC	Grasslands, open woodlands and forest, broken chaparral. Rocky habitats near streams.	No	Moderate	This species was not observed, but has a moderate potential to occur within the project- level analysis area due to the presence of suitable non-native grassland habitat. This species has been known to occur within one mile of the survey area (CDFW 2022d).
<b>TEIIDAE</b> <b>WHIPTAIL LIZARDS</b>					
Orange-throated [=Belding's orange- throated] whiptail <i>Aspidoscelis hyperythra</i>	CSC, MSCP	Chaparral, coastal sage scrub with coarse sandy soils and scattered brush.	Yes	Observed	This species was <b>observed</b> within disturbed Diegan coastal sage scrub within the project- level analysis area. Additionally, this species has been known to occur within one mile of the survey area (CDFW 2022d).
Coastal whiptail <i>Aspidoscelis tigris stejnegeri</i>	CSC	Coastal sage scrub, chaparral, woodlands, and streamsides where plants are sparsely distributed.	Yes	Observed	This species was <b>observed</b> within the project-level analysis area within the maritime succulent scrub.
<b>COLUBRIDAE</b> <b>COLUBRID SNAKES</b>					
Two-striped gartersnake <i>Thamnophis hammondi</i>	CSC	Permanent freshwater streams with rocky bottoms. Mesic areas.	Yes	Observed	A two-striped garter snake was <b>observed</b> within a vernal pool the project-level analysis area during wet season fairy shrimp surveys in 2018.



**Attachment 8**  
**Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas**

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>CROTALIDAE RATTLESNAKES</b>					
Red diamond rattlesnake <i>Crotalus ruber</i>	CSC	Desert scrub and riparian, coastal sage scrub, open chaparral, grassland, and agricultural fields.	Yes	Observed	This species was <b>observed</b> within the project-level analysis area in Diegan coastal sage scrub habitat. Additionally, this species has been known to occur within one mile of the survey area (CDFW 2022d).
<b>BIRDS</b> (Nomenclature from Chesser et al. 2021)					
<b>ACCIPITRIDAE HAWKS, KITES, &amp; EAGLES</b>					
Cooper's hawk (nesting) <i>Accipiter cooperii</i>	WL, MSCP	Mature forest, open woodlands, wood edges, river groves. Parks and residential areas.	Yes	Observed	This species was <b>observed</b> in several locations including the project-level analysis area, the northern portion of the vernal pool restoration area, and within the mitigation lands south of the borrow site.
Golden eagle <i>Aquila chrysaetos</i>	WL, CFP, BEPA, MSCP	Require vast foraging areas in grassland, broken chaparral, or sage scrub. Nest in cliffs and boulders. Uncommon resident.	Yes	Observed	One juvenile was <b>observed</b> flying over the project-level analysis area.



**Attachment 8**  
**Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas**

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
Northern harrier (nesting) <i>Circus hudsonius</i>	CSC, MSCP	Coastal lowland, marshes, grassland, agricultural fields. Migrant and winter resident, rare summer resident.	Yes	Observed	The northern harrier was <b>observed</b> during surveys within the project-level analysis area and within outfall locations in maritime succulent scrub habitat located to the southwest of the borrow site. Additionally, this species has been known to occur within one mile of the survey area (CDFW 2022d).
White-tailed kite (nesting) <i>Elanus leucurus</i>	CFP	Nest in riparian woodland, oaks, sycamores. Forage in open, grassy areas. Year-round resident.	Yes	Observed	This species was <b>observed</b> within the project-level analysis area and the vernal pool restoration area in non-native grassland habitat.



**Attachment 8**  
**Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas**

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
Bald eagle <i>Haliaeetus leucocephalus</i>	(Fed. Delisted), CE, CFP, BEPA, MSCP	Rivers, lakes. rare winter visitor, rare fall migrant. Feed mainly on fish.	Yes	Occur – Observed; Nesting – not expected	This species was <b>observed</b> perching on a power pole located on a disturbed road within the project-level analysis area. As there is no nesting opportunities for this species on-site, it is assumed this bird was a fly-over. There may be foraging opportunities for this species within the coastal sage scrub and non-native grasslands, but bald eagle mainly feeds on fish and the site does not support large bodies of water.
<b>FALCONIDAE                      FALCONS &amp; CARACARAS</b>					
Merlin <i>Falco columbarius</i>	WL	Rare winter visitor. Grasslands, agricultural fields, occasionally mud flats.	Yes	Observed	This species was <b>observed</b> perched on a utility pole within the project-level analysis area in non-native grassland habitat, and another one was detected immediately east of VTM South, and within the grading footprint.



Attachment 8  
Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>STRIGIDAE</b> <b>TYPICAL OWLS</b>					
Western burrowing owl (burrow sites) <i>Athene cunicularia</i>	SC, MSCP	Grassland, agricultural land, coastal dunes. Require rodent burrows. Declining resident.	Yes	Moderate	This species was incidentally <b>observed</b> within the coastal sage scrub within the northern portion of the project-level analysis area during a Quino checkerspot butterfly survey. Suitable habitat occurs within VTM North and VTM South; however, this species was not detected during protocol burrowing owl breeding season surveys conducted in 2018 or 2020. This species has been known to occur within one mile of the survey area (CDFW 2022d).
<b>LANIIDAE</b> <b>SHRIKES</b>					
Loggerhead shrike <i>Lanius ludovicianus</i>	CSC	Agricultural areas, parks, ponds, rivers. Rare fall and spring migrant, winter visitor, summer resident. Breeding rare.	No	Moderate	This species was not observed during surveys; however, there was a recent observation posted to a public citizen science mobile application within the project-level survey area (I-Naturalist) and there is suitable habitat present to support the species.



Attachment 8  
Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>VIREONIDAE</b> <b>VIREOS</b>					
Least Bell's vireo (nesting) <i>Vireo bellii pusillus</i>	FE, CE, MSCP	Willow riparian woodlands. Summer resident.	Yes	Observed	Least Bell's vireo was <b>detected</b> by vocalizations within the riparian habitat on the western end of the proposed Beyer Boulevard extension. This species was also detected by vocalizations within the southeastern portion of the mitigation lands within mule fat scrub. This species has also been known to occur within one mile of the survey area (CDFW 2022e).
<b>ALAUDIDAE</b> <b>LARKS</b>					
California horned lark <i>Eremophila alpestris actia</i>	WL	Sandy shores, mesas, disturbed areas, grasslands, agricultural lands, sparse creosote bush scrub.	Yes	Observed	This species was <b>observed</b> several times on-site during surveys including in VTM North in non-native grassland habitat and within disturbed lands in the mitigation lands.



Attachment 8 Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas					
Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>TROGLODYTIDAE</b> <b>WRENS</b>					
Coastal cactus wren <i>Campylorhynchus brunneicapillus sandiegensis</i>	CSC, MSCP	Maritime succulent scrub, coastal sage scrub with <i>Opuntia</i> thickets. Rare localized resident.	No	High	This species was not observed but has a high potential to occur within the maritime succulent scrub habitat located at the western end of Beyer Boulevard. Coastal cactus wren was detected within the western end of the proposed Beyer Boulevard in 2017 (RECON 2022) and due to the high suitability of the habitat on the west end of the project and the past detections, this species is assumed present. This species has also been known to occur within one mile of the survey area (CDFW 2022d).



**Attachment 8**  
**Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas**

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>SYLVIIDAE                      GNATCATCHERS</b>					
Coastal California gnatcatcher <i>Polioptila californica californica</i>	FT, CSC, MSCP	Coastal sage scrub, maritime succulent scrub. Resident.	Yes	Observed	This species was <b>observed</b> in Diegan coastal sage scrub habitat during protocol surveys performed in VTM North and the mitigation lands, and incidental sightings during general vegetation surveys along Beyer Boulevard. This species has also been known to occur within one mile of the survey area (CDFW 2022e).
<b>PARULIDAE                      WOOD WARBLERS</b>					
Yellow warbler (nesting) <i>Setophaga [=Dendroica] petechia</i>	CSC	Breeding restricted to riparian woodland. Spring and fall migrant, localized summer resident, rare winter visitor.	Yes (within mitigation lands)	Observed	A yellow warbler was detected by vocalizations along the eastern edge of the mitigation lands within the mule fat scrub habitat. There is a high potential for this species to nest within the riparian vegetation within the western end of the Beyer Boulevard extension.



Attachment 8  
Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
Yellow-breasted chat (nesting) <i>Icteria virens</i>	CSC	Dense riparian woodland. Localized summer resident.	Yes	Observed	A yellow-breasted chat was <b>observed</b> within the western end of the proposed Beyer Boulevard extension and detected by vocalizations along the eastern edge of the mitigation lands within the mule fat scrub habitat.
<b>EMBERIZIDAE                      EMBERIZIDS</b>					
Southern California rufous-crowned sparrow <i>Aimophila ruficeps canescens</i>	WL, MSCP	Coastal sage scrub, chaparral, grassland. Resident.	Yes	Observed	This species was <b>observed</b> several times on-site during field surveys in VTM North, in Diegan coastal sage scrub habitat within VTM South, west of VTM South, and in non-native grassland habitat within the northern vernal pool restoration area parcel. This species has been known to occur within one mile of the survey area (CDFW 2022d).
Grasshopper sparrow (nesting) <i>Ammodramus savannarum</i>	CSC	Tall grass areas. Localized summer resident, rare in winter.	Yes	Observed	Grasshopper sparrows were <b>detected</b> by vocalizations at the northern section of VTM North in Diegan coastal sage scrub habitat and within the mitigation lands.



**Attachment 8**  
**Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas**

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
Bell's sage sparrow <i>Artemisiospiza [=Amphispiza] belli belli</i>	WL	Chaparral, coastal sage scrub. Localized resident.	No	Moderate	This species was not observed but has a moderate potential to occur in the Diegan coastal sage scrub and maritime succulent scrub areas within the survey area. This species has been known to occur within one mile of the survey area (CDFW 2022d).
<b>MAMMALS</b> (Nomenclature from Bradley et al. (2014))					
<b>VESPERTILIONIDAE</b>	<b>VESPER BATS</b>				
Western red bat <i>Lasiurus blossevillei</i>	CSC	Generally associated with riparian habitats, especially willows, cottonwoods, and sycamores	No	Low within mesa top areas associated with project and program level areas. Moderate within mitigation lands.	This species was not observed within the project area and not expected to due to the absence of riparian habitat. There is moderate potential for the western red bat to occur within the riparian habitats within the mitigation lands. This species has also been known to occur within one mile of the survey area (CDFW 2022d).



Attachment 8  
Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas

Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
Townsend's [=western] big-eared bat <i>Corynorhinus townsendii</i>	CSC	Caves, mines, buildings. Found in a variety of habitats, arid and mesic. Individual or colonial. Extremely sensitive to disturbance.	No	Low	This species was not observed and has a low potential to occur due to a few old homesteads remaining on site. However, minimal foraging habitat is present on site that would be expected to attract this species. Foraging is more likely to occur in longer- standing water that attracts a high density of moths and other invertebrates. This species has been known to occur within one mile of the survey area (CDFW 2022d).
<b>MURIDAE</b> <b>OLD WORLD MICE &amp; RATS (I)</b>					
San Diego desert woodrat <i>Neotoma lepida intermedia</i>	CSC	Coastal sage scrub and chaparral.	Yes	Observed	The San Diego desert woodrat and middens were <b>observed</b> in two separate locations during surveys, including along the eastern edge of VTM South in non-native grassland habitat and in the mitigation lands to the southeast of the borrow site, within Diegan coastal sage scrub habitat.



Attachment 8 Sensitive Wildlife Species Occurring or with the Potential to Occur within the Program-level and Project-level Analysis Areas					
Species' Common Name/ Scientific Name	Listing Status	Habitat Preference/ Requirements	Detected On-Site?	Potential to Occur On-Site?	Basis for Determination of Occurrence Potential
<b>CERVIDAE</b>	<b>DEER</b>				
Southern mule deer <i>Odocoileus hemionus fuliginata</i>	MSCP	Many habitats.	No	Moderate	Although not observed, the project area and mitigation lands both provide suitable habitat for this species; however, habitat fragmentation has limited this species range. Frequent human disturbance may reduce habitat value, but this species could use the project area for foraging.
<p>(I) = Introduced species</p> <p>STATUS CODES</p> <p><u>Listed/Proposed</u></p> <p>CE = Listed as endangered by the state of California</p> <p>FE = Listed as endangered by the federal government</p> <p>FPT = Proposed for listed as threatened by the federal government</p> <p>FT = Listed as threatened by the federal government</p> <p>SC = State of California candidate for listing as threatened or endangered</p> <p><u>Other</u></p> <p>BEPA = Bald and Golden Eagle Protection Act</p> <p>CFP = California fully protected species</p> <p>CSC = California Department of Fish and Wildlife species of special concern</p> <p>WL = California Department of Fish and Wildlife watch list species</p> <p>MSCP = City and County of San Diego Multiple Species Conservation Program covered species</p> <p>VPHCP = City of San Diego Vernal Pool Habitat Conservation Plan</p>					