

Jurisdictional Delineation Report for Tie-Line 649 Wood-to-Steel Pole Replacement Project

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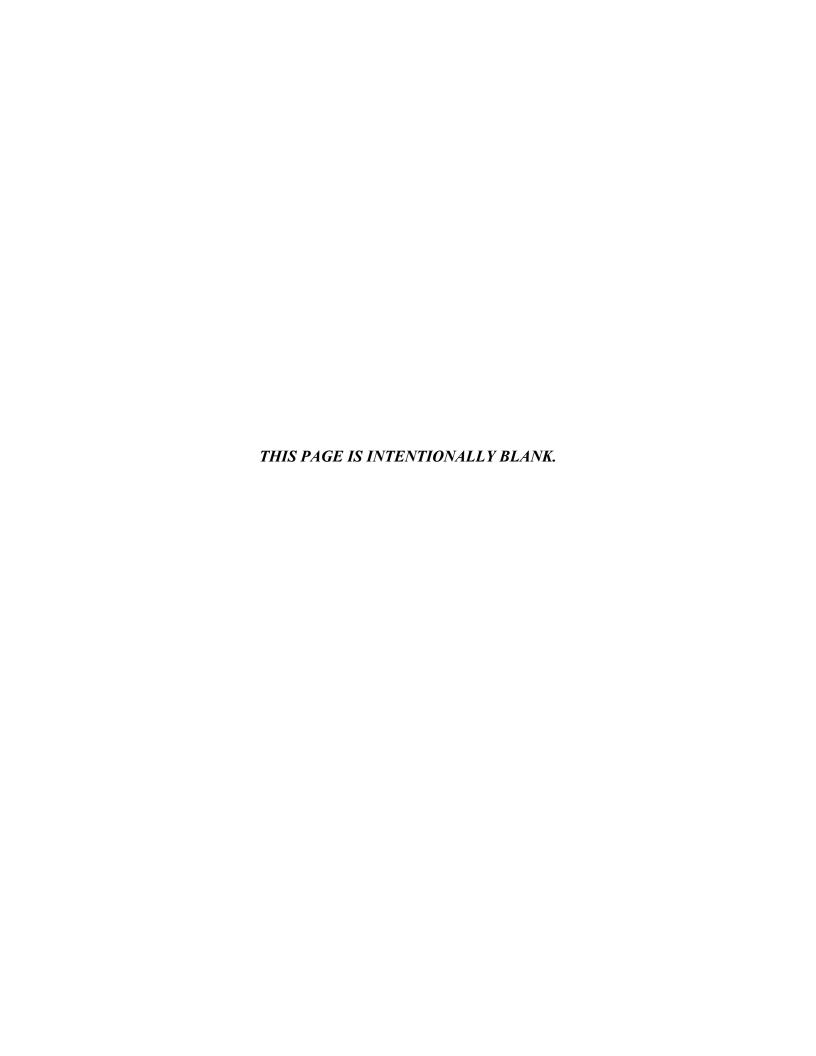


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Chapter 1 - Summary of Findings

RECON Environmental, Inc. (RECON) and Chambers Group, Inc. (Chambers Group) aquatic resource specialists conducted a jurisdictional delineation along approximately seven miles of transmission line (TL) 649 in southern San Diego County. Methods for delineating wetlands followed guidelines set forth by the U.S. Army Corps of Engineers ([ACOE] 1987), including the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (Arid Supplement; ACOE 2008). All figures depicting the project location and results of the survey are shown in Attachment 1.

A total of 5.55 acres of ACOE jurisdictional waters were delineated within the survey area. Of these, 4.45 acres are considered ACOE wetland waters of the U.S. (of which 0.80 acre are vernal pool wetlands), and 1.09 acres are considered ACOE non-wetland waters of the U.S. Although not formally delineated, an additional 11.74 acres of San Diego Mesa Claypan vernal pool habitat were identified to occur within the survey area and likely support jurisdictional ACOE vernal pool wetland waters of the U.S.

California Department of Fish and Wildlife (CDFW) jurisdictional waters total 5.79 acres within the survey area. Of these, 1.09 acres are considered CDFW unvegetated streambed and 4.70 acres are considered CDFW riparian. CDFW does not take jurisdiction over project vernal pools via the 1600 streambed alteration program.

A total of 5.55 acres of Regional Water Quality Control Board (RWQCB) waters of the State were delineated within the survey area. The RWQCB waters of the State include 0.80 acre of vernal pools. Although not formally delineated, an additional 11.74 acres of San Diego Mesa Claypan vernal pool habitat were identified to occur within the survey area and likely support jurisdictional RWQCB waters of the State vernal pools.

Impacts to jurisdictional waters would require a Section 404 permit from ACOE, a Streambed Alteration Agreement from CDFW, and a 401 water quality certificate from the RWQCB.



Chapter 2 - Proposed Project

San Diego Gas and Electric (SDG&E) proposes to replace wooden transmission poles along approximately seven miles of TL 649 in southern San Diego County. TL 649 is part of SDG&E's efforts to increase system reliability and reduce risk associated with potential fire events. The project would fire-harden TL 649, an existing 69-kilovolt wood transmission line, by replacing approximately 116 existing wood structures with galvanized steel poles. The new galvanized steel poles will be directly embedded or supported by either micropile or pier concrete foundations. The project also includes the reconductor of the associated distribution line with 636 aluminum conductor steel support/alumaweld conductor and the use of access roads, stringing sites, guard structures, and staging yards.

The project is located within the city of Chula Vista, the city of San Diego, and the unincorporated San Diego County community of Otay Mesa (Figure 1). The survey area spans various sections within Township 18 South, Range 01 West of the Imperial Beach and Otay Mesa quadrangle U.S. Geological Survey (USGS) maps (USGS 1971, 1975; Figure 2). Within the Imperial Beach quadrangle, the survey area spans Sections 19 and 20. Within the Otay Mesa quadrangle, the survey area spans Sections 13, 24, and 25, as well as an unsectioned portion of the Otay (Estudillo) Land Grant. The survey area generally follows the Otay River floodplain and occurs within undeveloped open space, with the exception of minor agricultural uses and development.

As the project area has the potential to contain federal and state jurisdictional waters, SDG&E requested a jurisdictional delineation to be conducted. The purpose of this jurisdictional delineation is to identify and map the location of jurisdictional waters to provide necessary background information for avoidance measures by engineering and for analysis by ACOE, CDFW, and the RWQCB if permits are required.



Chapter 3 - Regulatory Overview

3.1 ACOE WETLANDS

According to the ACOE Wetland Delineation Manual, wetlands are defined as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances, do support a prevalence of vegetation typically adapted for life in saturated soil conditions." Wetlands are delineated using three parameters: hydrophytic vegetation, wetland hydrology, and hydric soils. According to ACOE, indicators for all three parameters must be present to qualify as a wetland.

Vernal pools are defined in the Arid Supplement as "small, temporarily and seasonally ponded depressions found in a variety of landscapes where they are usually underlain by an impermeable layer such as a hardpan, claypan, or basalt. Vernal pools often fill and empty several times during the rainy season." As vernal pools are a type of wetland, they also were delineated using the three parameters, this methods is further discussed in Section 3.1.2.

3.1.1 Regulatory Definition

In accordance with Section 404 of the Clean Water Act (CWA), ACOE regulates the discharge of dredged or fill material into waters of the United States. The term "waters of the United States" is defined as:

- All waters currently used, or used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters subject to the ebb and flow of the tide;
- All interstate waters including interstate wetlands;
- All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds; the use, degradation, or destruction of which could affect foreign commerce including any such waters, (1) which could be used by interstate or foreign travelers for recreational or other purposes; or (2) from which fish or shellfish are, or could be, taken and sold in interstate or foreign commerce; or (3) which are used or could be used for industries in interstate commerce;
- All other impoundments of waters otherwise defined as waters of the United States under the definition;
- Tributaries of waters identified above;
- The territorial seas; and
- Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in the paragraphs above (33 Code of Federal Regulations [CFR] Part 328.3[a]).



3.1.2 Wetland Parameters

Wetlands are delineated using three parameters: hydrophytic vegetation, wetland hydrology, and hydric soils. According to ACOE, indicators for all three parameters must be present to qualify as a wetland.

3.1.2.1 Hydrophytic Vegetation

Hydrophytic vegetation is defined as "the sum total of macrophytic plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content" (ACOE 1987). The potential wetland areas within the survey area were surveyed by walking through the project site and making observations of those areas exhibiting characteristics of jurisdictional waters or wetlands. Vegetation units with potential wetland areas were examined, and data for each vegetation stratum (i.e., tree, shrub, herb, and vine) were recorded on the datasheet provided in the Arid Supplement (ACOE 2008). The percent absolute cover of each species present was visually estimated and recorded.

The wetland indicator status of each species recorded was determined by using the National Wetland Plant Inventory (Lichvar, et. al. 2014). An obligate (OBL) indicator status refers to plants that are almost always a hydrophyte and rarely in uplands. A facultative wet (FACW) indicator status refers to plants that usually are a hydrophyte, but are occasionally found in non-wetlands. A facultative (FAC) indicator status refers to plants that commonly occur as either a hydrophyte or non-hydrophyte. Facultative upland (FACU) species occasionally are a hydrophyte, but usually occur in uplands. Upland (UPL) species almost always occur in uplands, and rarely are a hydrophyte. A not indicated (NI) status refers to species that have insufficient data available to determine an indicator status at this time, for the local region.

Plant species nomenclature follows that contained in *the Jepson Online Interchange* (Jepson Flora Project 2014). Dominant species with an indicator status of NI or not listed in the 2014 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 characteristic of southern California.

3.1.2.2 Hydric Soils

A hydric soil is a soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions that favor the growth and regeneration of hydrophytic vegetation (ACOE 1987). Hydric soil indicators are formed predominantly by the accumulation or loss of iron, manganese, sulfur, or carbon compounds (ACOE 2008). The hydric soil criterion is considered fulfilled at a location if soils in the area can be inferred to have a high groundwater



table, evidence of prolonged soil saturation exists, or any indicators suggesting a long-term reducing environment in the upper 18 inches of the soil profile are present.

A sampling point was selected within a potential wetland area where the apparent boundary between wetland and upland was inferred based on changes in the composition of the vegetation and topography. The soil pit was dug to a depth of at least 18 inches or to a depth necessary to determine soil color, evidence of soil saturation, depth to groundwater, and indicators of a reducing soil environment (e.g., mottling, gleying, and sulfidic odor). In areas where the direct examination of soil pits were precluded by the pretense of federally endangered species (i.e., fairy shrimp), hydric soils were inferred based on the presence of vegetation and hydrology indicators (see Section 4.1.3.1, Vernal Pools, below).

3.1.2.3 Wetland Hydrology

The presence of wetland hydrology indicators confirm that inundation or saturation has occurred on a site, but may not provide information about the timing, duration, or frequency of the event. Hydrology features are generally the most ephemeral of the three wetland parameters (ACOE 2008).

Hydrologic information for the site was obtained by reviewing USGS topographic maps and by directly observing hydrology indicators in the field. The wetland hydrology criterion is considered fulfilled at a location if, based upon the conclusions inferred from the field observations, an area has a high probability of being periodically inundated or has soils saturated to the surface at some time during the growing season to develop anaerobic conditions in the surface soil environment, especially the root zone (ACOE 1987). If at least one primary indicator or at least two secondary indicators are found at a sample point, the wetland hydrology criterion is considered fulfilled.

3.1.3 Atypical Situations

The definition of a wetland includes the phrase "under normal circumstances" because there are situations in which one or more of the wetland parameters has been removed or altered as a result of recent natural events or human activities (ACOE 1987). To describe these conditions, ACOE uses definitions for atypical situations and problem areas. They are as follows:

Atypical situation: . . . refers to areas in which one or more parameters (vegetation, soil, and/or hydrology) have been sufficiently altered by recent human activities or natural events to preclude the presence of wetland indicators of the parameter (ACOE 1987).



Problem areas: . . . wetland types in which wetland indicators of one or more parameters may be periodically lacking due to normal seasonal or annual variations in environmental conditions that result from causes other than human activities or catastrophic natural events. Representative examples of problem areas include seasonal wetlands, wetlands on drumlins, prairie potholes, and vegetated flats (ACOE 1987).

Atypical situations and problem areas may lack one or more of the three criteria and still may be considered wetlands. Background information on the previous condition of the area, field observations, and/or the identification of undisturbed reference sites adjacent to atypical sites may indicate that the site met the wetland criteria prior to disturbance. Additional delineation procedures would be employed if normal circumstances did not occur on a site.

Atypical situations within the survey area include unpaved access roads where intense vehicular use has eliminated or damaged evidence of hydrophytic vegetation and hydrology indicators.

3.1.4 Vernal Pools

Vernal pools are considered "problem areas" because vegetation or hydric soils may be lacking due to the seasonal filling and drying of vernal pools. As described in the Arid Supplement "the species composition of some wetland plant communities in the Arid West can change in response to seasonal weather patterns and long-term climatic fluctuations. Wetland types that are influenced by these shifts include **vernal pools**, playa edges, seeps, and springs. Lack of hydrophytic vegetation during dry periods should not immediately eliminate a site from further consideration as a wetland." In addition, when soil investigations are performed within vernal pools, vernal pools may also lack hydric soil indicators as they support seasonally ponded soils, described under problem soils as "seasonally ponded, depressional wetlands occur in basins and valleys throughout the Arid West. Most are perched systems, with water ponding above a restrictive soil layer, such as a hardpan or clay layer, that is at or near the surface (e.g., in Vertisols). Some of these wetlands lack hydric soil indicators due to limited saturation depth, saline conditions, or other factors."

3.2 ACOE NON-WETLAND WATERS

The ACOE also requires the delineation of non-wetland jurisdictional waters of the U.S. These waters must have strong hydrology indicators such as the presence of seasonal flows and an ordinary high watermark. An ordinary high watermark is defined as:

... that line on the shore established by the fluctuations of water and indicated by physical characteristics such as [a] clear, natural line impressed on the bank,



shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas (33 CFR Part 328.3).

Areas delineated as non-wetland jurisdictional waters may lack wetland vegetation or hydric soil characteristics. Hydric soil indicators may be missing because topographic position precludes ponding and subsequent development of hydric soils. Absence of wetland vegetation can result from frequent scouring due to rapid water flow. These types of jurisdictional waters are delineated by the lateral and upstream/downstream extent of the ordinary high watermark of the particular drainage or depression.

CDFW Jurisdictional Waters

Under Sections 1600–1607 of the Fish and Game Code, CDFW regulates activities that would divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake that supports fish or wildlife. CDFW has jurisdiction over riparian habitats (e.g., riparian woodland) associated with watercourses. Jurisdictional waters are delineated by the outer edge of riparian vegetation or at the top of the bank of streams or lakes, whichever is wider. Although CDFW does not regulate vernal pools under Section 1602 of the Fish and Game Code, CDFW will assert jurisdiction over vernal pools if California state threatened and/or endangered species are present via the California Endangered Species Act.

3.3 RWQCB JURISDICTIONAL WATERS

RWQCB is the regional agency responsible for protecting water quality in California. The jurisdiction of this agency includes waters of the state as mandated by both the federal CWA Section 401 and the California Porter-Cologne Water Quality Control Act. If a potential vernal pool meets the ACOE wetland criteria, but is considered an isolated water by the ACOE, the RWQCB asserts jurisdiction under the Porter-Cologne Water Quality Control Act.



Chapter 4 - Methods

A jurisdictional delineation, following the guidelines set forth by ACOE (1987, 2008), was performed to gather field data at potential wetland and waters of the U.S. and State sites in the survey area. To account for all potential project impact areas and provide a greater landscape context to sensitive aquatic resources, the survey area includes a 150-foot buffer from the center of the transmission line, a 20-foot buffer on either side of all access roads, and a 50-foot buffer surrounding temporary project features such as staging yards and stringing sites (Figure 3). RECON wetland specialists Michael Nieto, J.R. Sundberg, and Cailin O'Meara delineated jurisdictional waters on the 336.8-acre survey area on May 14 and 22, 2014. Additional site visits were conducted on July 28 and November 3, 2014 to assess jurisdictional waters within the additional project areas to investigate potential vernal pools. Chambers Group wetland specialists Ian Maunsell and Christina Congedo; ICF wetland specialist Lanika Cervantes; and SDG&E Aquatic Resource Specialist Tamara Spear conducted an additional site visit on March 20, 2015.

Prior to conducting the field delineation, the following sources were consulted to identify land use history and provide additional context to potentially atypical and problematic jurisdictional wetlands within the project area, including:

- USGS Otay Mesa quadrangle topographic map (USGS 1971)
- USGS Imperial Beach quadrangle topographic map (USGS 1975)
- Historical aerial photographs (www.historicaerials.com)
- National Wetland Inventory (USFWS 2014a)
- California Natural Diversity Database (CNDDB) search for sensitive vernal pool endemic species (State of California 2014)
- USFWS Critical Habitat for San Diego Fairy Shrimp (USFWS 2014b)
- USFWS Critical Habitat for Spreading Navarretia (USFWS 2014b)
- Draft Otay Mesa Vernal Pool HCP mapping (San Diego Association of Governments [SANDAG] 2014)
- Otay Ranch Preserve Fairy Shrimp Surveys (RECON 2013)
- Transmission Construction and Maintenance (TCM) 2009 Vernal Pool Data Accuracy Assessment Report (AECOM 2009)

Once on-site, the potential wetland sites were examined to determine the presence of any of the three wetland parameters or drainage channels. Soil type and classification data used in the delineation were provided by the Natural Resource Conservation Service's web soil survey (U.S. Department of Agriculture [USDA] 2014).



Potential waters and wetland locations observed within the survey area were evaluated using the methodology set forth in the ACOE Wetland Delineation Manual (ACOE 1987) and the Arid Supplement (ACOE 2008). Wetland hydrology indicators included evidence of inundation, saturation, watermarks, drift lines, and sediment deposits. Vegetation was analyzed using dominant species' wetland indicator status (ACOE 2014). Suspected jurisdictional areas were evaluated for the presence of definable channels, wetland vegetation, an ordinary high water mark, and connectivity to a traditional navigable waterway (TNW).

As the survey was conducted during a drought year, likely wetland areas without persistent wetland vegetation were treated as "problem areas" and analysis was adjusted accordingly.

4.1 VERNAL POOL BASELINE SURVEYS, 2009-2011

Surveys assessing potential vernal pools located within the dirt access road associated with TL649 were initially conducted by Scott McMillan with AECOM in 2009 and were recorded in the 2009 Vernal Pool Data Accuracy Assessment Report. The 2009 effort included a detailed assessment of vernal pool resources within and adjacent to SDG&E access roads. While faunal diversity and hydrology were evaluated, methods for the 2009 survey report focused on use of endemic vernal pool flora to define vernal pool basins. For the purpose of the 2009 Vernal Pool Data Accuracy Assessment, a vernal pool was considered to be any basin area supporting at least one indicator plant species (included in Appendix 2 of the 2009 Vernal Pool Accuracy Assessment Report). Follow-up surveys using the same protocol were conducted by AECOM and Chambers in 2010 and 2011. The data from these surveys, 2009-2011, was used as a baseline for assessing vernal pools in the 2014 and 2015 vernal pool surveys.

4.2 2014/2105 VERNAL POOL EVALUATIONS

All vernal pools previously described and mapped during the 2009-2011 baseline surveys were observed and documented. Although no formal wetland data sheets were completed for baseline pools, conditions of known baseline vernal pools were documented and photographed as reference sites for vernal pool evaluations.

Due to the location of most baseline pools within existing utility service roads, some baseline pools were observed to have shifted or expanded, likely due to vehicular disturbance. Where known vernal pools were observed to have shifted or expanded, the limits of the baseline pools were updated to reflect the current extent of the jurisdictional area based on endemic floral species and hydrological indicators such as surface soil crack, ponding, or saturation. The previously described limits of 2009-2011 baseline vernal pools were not reduced in size during the 2014 and 2015 field surveys.



Following evaluation of the baseline vernal pools, the remainder of the survey area was evaluated for basins supporting or potentially supporting vernal pool indicator species. Vernal pools located within access roads are subject to continuous vehicular disturbance and can, in the absence of vegetation, constitute an "atypical situation." In addition, the surveys were conducted after three consecutive drought years. Therefore, alternative methods described in the Arid Supplement were used to delineate wetland areas. When endemic flora was not observed within a basin due to presumed disturbance, presence of endemic flora was assumed if the basin was within proximity to known/mapped vernal pool complexes.

Road ruts were differentiated from jurisdictional disturbed vernal pools if they met the following criteria:

- 1) They did not occur within or adjacent to known or historic vernal pool complexes;
- 2) They occur within areas not typically associated with vernal pools (i.e., cut roads within hillsides, along a hillslope);
- 3) They were unvegetated or dominated by upland vegetation; and
- 4) They were not included in the 2009 through 2011 baseline surveys (these older surveys were conducted during normal or near normal rain seasons and therefore, vernal pool determinations made during these previous surveys were upheld during the current field efforts).

Soil tests pits were not dug within potential vernal pools due to the documented presence of the federally endangered San Diego fairy shrimp (*Branchinecta sandiegonensis*; AECOM 2009). Hydric soils in vernal pools were inferred based on the presence of hydrology indicators (basin). Vernal pool watersheds were visually based on changes in the local microtopography and documented using a sub-meter global positioning system.



Chapter 5 - Results of Field Survey

A description of the major vegetation units observed, soil types encountered, and a discussion of the local hydrology in the project area are presented below. Copies of the field data forms summarizing information on vegetation, soils, and hydrology observed at each sample site are provided in Attachment 2.

5.1 **VEGETATION**

A total of thirteen vegetation communities and land cover types occur in the survey area. Of these, five vegetation communities support hydrophytic vegetation: riparian scrub, riparian forest, vernal pool, disturbed wetland, and meadow/seep.

5.1.1 Areas Supporting Hydrophytic Vegetation

5.1.1.1 Vernal Pool Complex (44000)

Vernal pool complex vegetation occurs within the survey area. This vegetation community was mapped at a landscape scale and includes both vernal pool basins and associated, interstitial, uplands within the vernal pool complex. Uplands and wetlands within a vernal pool complex are often ecologically related (species dispersal, pollination, water quality, etc.) and are commonly mapped as a single unit. Vernal pools are seasonally flooded depressions often associated with hummocks or mima-mound-topography. Vernal pools often support endemic plant and animal species adapted to extreme variability in hydrologic conditions (Oberbauer et al 2008). Plant species present in the vernal pool complexes within the survey area include woolly marbles (*Psilocarphus brevissimus*, OBL), annual beard grass (*Polypogon monspeliensis*, FACW), and Italian ryegrass (*Festuca perennis*, FAC). Areas with this vegetation type within the project area include the entirety of coastal mesas with mima-mound-topography and some depressions within access roads on a clay terrace near the Otay river floodplain.

5.1.1.2 Meadow/Seep (45400)

Meadow/seep vegetation is dominated by low-growing, perennial wetland species. This vegetation community is often found in previously disturbed areas where wetland species have not yet fully established (Oberbauer et al 2008). Species within the emergent wetland include Italian ryegrass, beardless wild-rye (*Elymus triticoides*, FAC), and common rush (*Juncus effusus*, FACW).



5.1.1.3 Riparian Scrub (63000)

Riparian scrub vegetation is dominated by small trees or shrubs typically in major river systems where flood scour occurs (Oberbauer et al 2008). Typical species within the survey area include San Diego marsh elder (*Iva hayesiana*, FACW), desert fragrance (*Ambrosia* [=*Hymenoclea*] *monogyra*, UPL), and mule fat.

5.1.1.4 Riparian Forest (61000)

Southern willow scrub vegetation is characterized by dense willow (*Salix* sp.) stands and repeated flooding (Oberbauer et al 2008). The riparian forest within the survey area is dominated by arroyo willow (*Salix lasiolepis*, FACW).

5.1.1.5 *Disturbed Wetland (11200)*

Disturbed wetland vegetation may contain native and non-native species and occurs in perennial or ephemeral wetlands that have been modified by human activity (Oberbauer et al 2008). Characteristic weed species within the survey area include salt cedar (*Tamarix ramosissima*, UPL) and fennel (*Foeniculum vulgare*, UPL). Some native species, including San Diego marsh elder, blue elderberry (*Sambucus nigra*, FAC), and desert fragrance, are also present.

5.1.2 Areas Lacking Hydrophytic Vegetation

A total of 10 upland vegetation communities and land cover types occur within the survey area: Diegan coastal sage scrub, maritime succulent scrub, valley needlegrass grassland, non-native grassland, Tecate cypress forest, southern mixed chaparral, disturbed habitat, bare ground, urban/developed, and landscaped/ornamental. These vegetation communities and land cover types are generally composed of upland plant species, bare ground, and/or development, and do not meet the hydrophytic vegetation criteria for wetlands.

5.2 SOILS

A total of eight soil series mapped by USDA (1973) occur in the survey area: Diablo, Gravel Pits, Linne, Olivenhain, Riverwash, Salinas, Stockpen, and Visalia (Figures 4-1 through 4-18). The acreages of these soil series are listed in Table 1.



TABLE 1: ACREAGES OF SOIL SERIES FOUND WITHIN THE SURVEY AREA

Soil Series	Acres
Diablo – suitable for supporting vernal pools	
clay, 2 to 9 percent slopes	19.36
clay, 9 to 15 percent slopes	55.57
clay, 15 to 30 percent slopes	54.06
clay, 30 to 50 percent slopes	30.75
Gravel pits	3.87
Linne – suitable for supporting vernal pools	
clay loam, 9 to 30 percent slopes	27.32
Olivenhain – suitable for supporting vernal pools	
cobbly loam, 2 to 9 percent slopes	17.33
cobbly loam, 9 to 30 percent slopes	3.32
cobbly loam, 30 to 50 percent slopes	27.50
Riverwash	15.88
Salinas	
clay loam, 0 to 2 percent slopes	1.54
clay loam, 2 to 9 percent slopes	44.04
clay, 0 to 2 percent slopes	0.54
Stockpen – suitable for supporting vernal pools	
gravelly clay loam, 0 to 2 percent slopes	28.12
Visalia	
gravelly sandy loam, 2 to 5 percent slopes	7.58

5.2.1 Soils Considered Suitable for the Formation of Vernal Pools

Soil series were evaluated for suitability for vernal pool formation based on slope and permeability. Soils with less than 10 percent slopes and an impermeable subsurface layer (0.06 inch per hour or less permeability) are considered suitable for the formation of vernal pools (Bauder and McMillan 1998). A total of five soil series contained slopes and permeability that were considered suitable for the formation of vernal pools: Diablo, Linne, Olivenhain, Salinas, and Stockpen.

- The Diablo series consists of well-drained moderately deep to deep clays derived from soft calcareous sandstone and shale. These soils are found on uplands (USDA 1973). This soil series meets the permeability criteria for vernal pools at slopes of less than 10 percent (Bauder and McMillan 1998). This soil series is scattered throughout the survey area at elevations of 160 to 600 feet.
- The Linne series consists of well-drained, moderately deep clay loams derived from soft calcareous sandstone and shale. At 9 to 30 percent slopes, this soil type is characterized



as rolling to hilly soil on uplands (USDA 1973). This soil type meets the permeability criteria for vernal pools at slopes of less than 10 percent (Bauder and McMillan 1998). This series occurs in the western and eastern portions of the survey area at elevations from 160 to 590 feet.

- The Olivenhain series consists of well-drained, moderately deep to deep cobbly loams with very cobbly clay subsoil. This series developed in old gravelly and cobbly alluvium and are located on dissected marine terraces. Mima mounds associated with vernal pool complexes are known to occur in many areas where the 2 to 9 percent slopes subcategory occurs (USDA 1973). This soil series is also known to support vernal pools in San Diego County coastal mesas and meets the permeability criteria for vernal pools at slopes of less than 10 percent (Bauder and McMillan 1998). This series occurs throughout the survey area soils at elevations from 160 to 540 feet.
- The Stockpen series consists of moderately well-drained, moderately deep gravelly clay loams located on marine terraces (USDA 1973). This soil series meets the permeability criteria for vernal pools at slopes of less than 10 percent and is known to support vernal pools in Otay Mesa (Bauder and McMillan 1998). This soil type occurs in the northeastern portion of the survey area at elevations of 520 to 560 feet and contains the highest amount of vernal pools of any soil series within the survey area.

5.2.2 Soils Not Considered Suitable for the Formation of Vernal Pools

Soils with greater than 10 percent slopes and a permeable subsurface (greater than 0.06 inch per hour) were not considered suitable for the formation of vernal pools (Bauder and McMillan 1998). A total of three soil series were not considered suitable for the formation of vernal pools:

- Gravel Pits consist of areas that have been excavated for sand or gravel. The areas are
 mostly on broad outwash plains and terraces of stream valleys. The gravel pits within the
 survey area are likely associated with the gravel mining that occurs within the Otay River
 Valley. This series occurs at elevations of 170 to 190 feet.
- The Riverwash series occurs in intermittent stream channels and is typically sandy, gravelly, or cobbly (USDA 1973). This soil type occurs in the Otay River Valley in the central and northeastern portion of the survey area at elevations of 200 to 300 feet.
- The Visalia series consists of very deep sandy loams underlain by loam and sandy loam derived from granitic alluvium. It occurs on alluvial fans and flood plains (USDA 1973).



This soil type occurs in the northeastern portion of the survey area at elevations of 280 feet.

5.3 HYDROLOGY

The project occurs within a dissected coastal mesa and canyon system on the southern bank of the Otay River near Otay Mesa. Topography within the project area includes steep canyon slopes, ephemeral drainages, river terraces, vegetated riparian valleys, and clay coastal mesas. The project area generally occurs within undeveloped open space, with the exception of minor agricultural uses within the Otay River floodplain. Coastal mesas within the project are either developed (residential) or contain vernal pool complexes of varying size and quality. Larger intact canyon systems within the project area (e.g., Johnson Canyon, O'Neal Canyon, Dennery Canyon) generally contain riparian scrub vegetation, while smaller drainage systems in the area typically contain ephemeral drainages or vegetated swales with intermittent evidence of wetland hydrology. All drainages and wetlands in the area are within the Otay River watershed and have direct hydrologic connectivity to the Otay River. The Otay River flows into the Pacific Ocean (a TNW via San Diego Bay, 5.9 miles west of the project site).

Vernal pools and their associated watersheds were observed on project access roads at several locations within the survey area. A majority of the vernal pools occur on clay mesa tops dissected by large drainages in the eastern portion of the project area. The remaining vernal pools occur within the access road that runs east-west on a clay river terrace on the southern bank of the Otay River.

5.3.1 Otay River Floodplain

The survey area is located primarily on the southern bank of the Otay River floodplain. The Otay River flows west through the survey area to the Pacific Ocean, where it empties into Egger Highlands at the San Diego Bay National Wildlife Refuge.

5.3.2 Tributaries & Natural Drainages

The survey area contains three major tributaries to the Otay River: Dennery Canyon, O'Neal Canyon, and Johnson Canyon. All three drainages flow north into the Otay River, a Relatively Permanent Water (RPW), and, ultimately, the Pacific Ocean, a TNW. Various smaller unnamed ephemeral drainages occur scattered throughout the survey area and drain north into the Otay River. There were 21 jurisdictional features identified in the survey area. The access road crosses through drainages at 12 of the above mentioned 21 locations.



5.3.3 Clay-pan Mesa Vernal Pool Complex

The northeastern portion of the survey area is located on mesa tops dissected by drainages. The mesa tops contain access roads with clay-pan vernal pools formed from road ruts. The roads are further surrounded by vernal pool complexes characterized by mima-mound-topography. These vernal pool complexes generally drain south and north into drainages associated with the Otay River, an RPW, via subsurface flows and/or sheet flow.

5.3.4 Man-made Structures

Man-made structures within the project area include concrete brow ditches and energy dissipaters. In the central portion of the survey area, the brow ditch and energy dissipater were constructed to drain an upland fill slope of a freeway bridge abutment. Water conveyed by the brow ditch and energy dissipater sheet flows across a maintained, concrete Arizona crossing onto an existing project access road and dissipates into upland.

5.3.5 Swales

Nine swales were identified in the survey area. Water conveyed by the swales sheet flow across existing unpaved, unculverted access roads and dissipate into upland.

5.3.6 Erosional Feature

One erosional feature occurs within the southern portion of the survey area. The erosional feature consists of a ditch that runs parallel to the access road and drains into upland.

5.3.7 Road Ruts

Road ruts occur within the survey area on access roads that are generally flat, unpaved, and underlain by clay soils. Rutting occurs when heavy equipment compresses and/or displaces saturated soils to form linear cavities within the access road footprint. Locations of road ruts on the project site were observed to change over time. Road rutting is a dynamic process and depends on soil saturation, soil type, as well as frequency and type of vehicular traffic. Although deep road ruts will exhibit seasonal depressional hydrology and may act as habitat for sensitive vernal pool fauna such as fairy shrimp which can indicate seasonal ponding (i.e., be an indicator for hydrology), they are generally not considered jurisdictional vernal pools.



Chapter 6 - Jurisdictional Delineation

Figures 5-1 through 5-18 identify the locations of ACOE, CDFW, and RWQCB jurisdictional waters within the survey area. Table 2 summarizes the acreages of each jurisdiction.

TABLE 2: EXISTING JURISDICTIONAL WATERS WITHIN THE SURVEY AREA

Jurisdictional Waters	Acres
ACOE Jurisd	liction
Wetlands total	4.45
Vernal Pool Wetlands	0.80
Riparian Scrub	2.50
Southern Willow Scrub	0.53
Disturbed Wetland	0.24
Emergent Wetland	0.38
Non-wetland waters of the U.S.	1.09
ACOE Total Jurisdiction	5.55
CDFW Juriso	liction
Riparian	4.70
Riparian Scrub	3.63
Southern Willow Scrub	0.53
Disturbed Wetland	0.24
Emergent Wetland	0.30
Unvegetated Streambed	1.09
CDFW Total Jurisdiction	5.79
RWQCB Juris	diction
Wetland Waters of the State	4.45
Vernal Pool Wetlands	0.80
Riparian Scrub	2.50
Southern Willow Scrub	0.53
Disturbed Wetland	0.24
Emergent Wetland	0.38
Non-wetland waters of the State	1.09
RWQCB Total Jurisdiction	5.55

6.1 ACOE JURISDICTION

ACOE jurisdictional waters total 5.55 acres, including 4.45 acres of wetlands (of which 0.80 acres of vernal pool wetlands were observed) and 1.09 acre of non-wetland waters of the U.S.

6.1.1 Wetlands

A total of 4.45 acres of jurisdictional wetlands were delineated within the survey area. Jurisdictional wetlands within the survey area consist of coastal and valley freshwater marsh, emergent wetland, southern willow scrub, disturbed wetland, and vernal pool wetlands.

6.1.1.1 Vernal Pool Wetlands

Of the 0.80 acre delineated as vernal pool wetlands, fifty-two vernal pools were identified in the surveys and are likely considered jurisdictional by ACOE and RWQCB. Of these vernal pools, eight are naturally occurring (i.e., not located within an access road and; therefore, undisturbed), and the remaining disturbed vernal pools occur within existing access roads. Of these disturbed vernal pools, six are unvegetated and thirty-eight are vegetated.

According to the CNDDB, two access roads within the project survey area (adjacent to the Donovan state prison) occurs on a mesa top within documented occurrences of the federal and state endangered ACOE vernal pool botanic indicator species, Otay Mesa mint (*Pogogyne nudiuscula*) and San Diego button celery (*Eryngium aristulatum* var. *parishii*).

6.1.2 Non-wetland Waters of the U.S.

A total of 1.09 acres of ACOE non-wetland waters of the U.S. occur within the survey area. The non-wetland waters consist of ephemeral drainages. These drainages contain an ordinary high watermark and display connectivity to the Otay River, a RPW.

6.1.3 Non-Jurisdictional Features

Road ruts, swales, erosional features, and man-made features do not meet the definition of an ACOE water of the U.S. (i.e., contain an OHWM or three parameter wetland), as they typically dissipate within uplands and do not exhibit connectivity to a TNW. These features are also not considered RWQCB jurisdictional as RWQCB follow ACOE guidance for delineation of waters of the State. In addition, these features do not support a bed and bank and therefore, are not considered jurisdictional by CDFW.

A small patch of riparian scrub was mapped on a project staging yard; however, it is only sparse riparian vegetation that is colonizing a constructed, upland fill slope fed by irrigation runoff. This area does not meet a three parameter wetland nor is it associated with a streambed or lake and therefore, is likely not considered jurisdictional by ACOE, RWQCB, or CDFW.



6.2 CDFW JURISDICTION, SECTION 1600 OF THE CALIFORNIA DEPARTMENT OF FISH AND GAME CODE, STREAMBED ALTERATION AGREEMENT

CDFW jurisdiction within the survey area totals 5.79acres, which includes 1.09 acres of CDFW streambed and 4.70 acres of CDFW riparian. CDFW streambed within the survey area consists of unvegetated streambed. CDFW riparian includes 1.13 acres of riparian scrub not considered jurisdictional by ACOE. The vernal pools in the project area are not within CDFW Section 1600 jurisdiction. However, CDFW does assert jurisdiction over state threatened and endangered species that may occur within vernal pools though the California Endangered Species Act (CESA).

6.3 RWQCB JURISDICTION

RWQCB jurisdiction within the survey area totals 5.55 acres of RWQCB waters of the state. RWQCB waters of the state consist of unvegetated streambed, coastal and valley freshwater marsh, emergent wetland, riparian scrub, southern willow scrub, disturbed wetland, and vernal pools.



Chapter 7 - Permit Authorization

ACOE, CDFW, and RWQCB jurisdictional waters are regulated by the federal, state, and local government. All impacts to jurisdictional waters need to be avoided and minimized to the greatest extent possible.

Unavoidable impacts to jurisdictional waters may be authorized by ACOE, CDFW, and ACOE through permit authorizations from ACOE (Section 404 permit program), from CDFW through a 1602 Streambed Alteration Agreement, and from RWQCB through a 401 State Water Quality Certification. In addition, impacts to isolated waters of the state will require a Waste Discharge Permit from the RWQCB.



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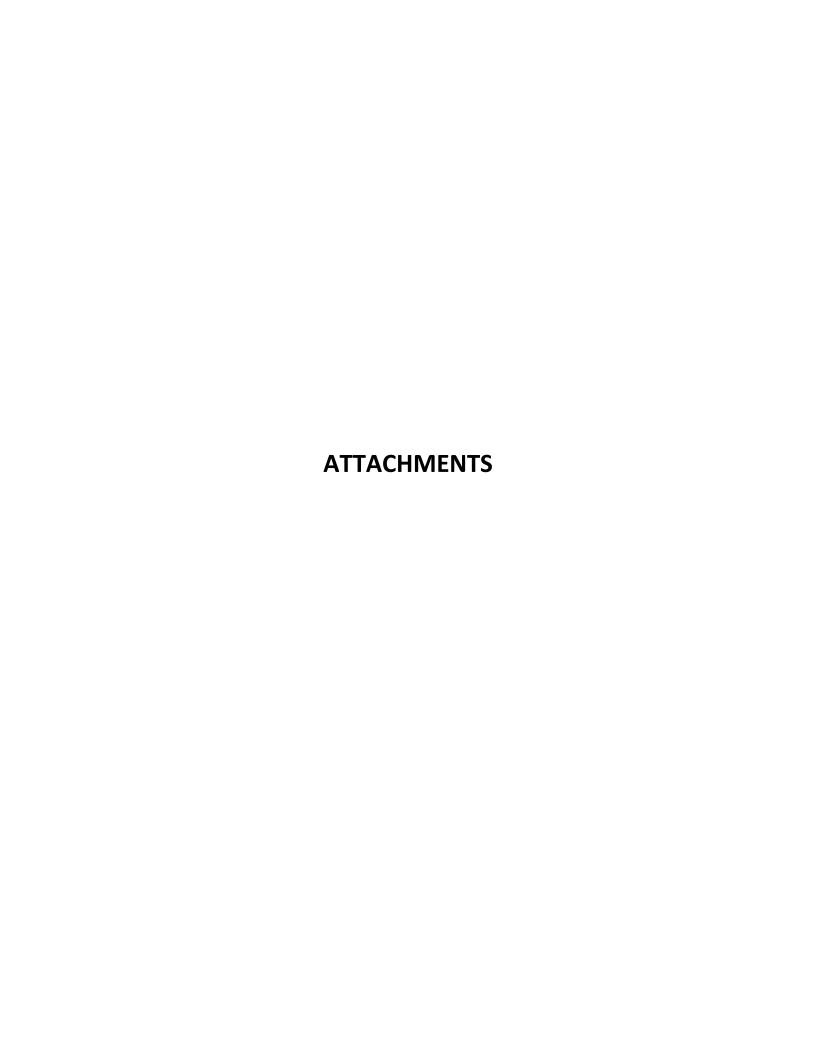
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ATTACHMENT 1: AQUATIC FEATURES DESCRIPTIONS

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Aquatic Feature Number	Description	Location Description	Jurisdictional Determination Reasoning	Agency Jurisdiction	Sample Point	Map Page Number	Photograph
AF1	Vegetated drainage	Between Location 1 and Location 2	Vegetated drainage with an OHWM and connectivity containing emergent marsh vegetation dominated by southern cattail (<i>Typha domingensis</i> , OBL) and mule fat (<i>Baccharis salicifolia</i> , FAC). This feature is considered an ACOE wetland water of the U.S., CDFW wetland, and RWQCB water of the state. As the project transmission line spans this feature, no impacts are anticipated.	ACOE/CDFW/ RWQCB	NA	2	Photograph 1
AF2	Ephemeral drainage	Between Location 3 and Location 4	Ephemeral drainage with an OHWM and connecting containing fringing riparian scrub vegetation dominated by mule fat. The drainage channel of this feature is likely considered an ACOE nonwetland water of the U.S., CDFW streambed, and RWQCB water of the state, while the riparian scrub fringing the drainage is considered CDFW wetland only. As the project transmission line spans this feature, no impacts are anticipated.	ACOE/CDFW/ RWQCB	NA	2	Photograph 2
AF3	Ephemeral drainage	Between Location 6 and Location 7	Ephemeral drainage with an OHWM and connectivity containing fringing riparian scrub vegetation dominated by mule fat and castor bean (<i>Ricinus communis</i> , FACU). The drainage channel of this feature is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state, while the riparian scrub fringing the drainage is likely CDFW only. The drainage channel of Feature 3 flows across a maintained, unpaved, unculverted, existing project access road. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	3	Photograph 3
AF4	man-made detention basin	southwest of Location 5	Man-made detention basin vegetated with riparian scrub vegetation dominated by mule fat and salt cedar (<i>Tamarix chinensis</i> , FAC), with occasional herbaceous understory vegetation consisting of dock (<i>Rumex</i> sp.). Feature 4 is not connected to a TNW, and does not exhibit a defined OWHM or streambed. The detention basin is likely considered an ACOE wetland waters and RWQCB water of the state occurring as a result of urban runoff from surrounding development to the west and sheet flow from paved roads to the south. As this feature is outside of proposed work areas, no impacts are anticipated.	ACOE and RWQCB	NA	3	Photograph 4

Aquatic Feature Number	Description	Location Description	Jurisdictional Determination Reasoning	Agency Jurisdiction	Sample Point	Map Page Number	Photograph
AF5	Vegetated drainage	Southeast of Location 14	Vegetated drainage with an OHWM and connectivity dominated by mule fat and black willow (Salix goodingii, FACW). The drainage channel of this feature is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state, while the riparian scrub fringing the drainage is likely considered ACOE wetland water, CDFW wetland, and RWQCB water of the state. The drainage channel of Feature 5 flows into a 3-foot box culvert and does not cross project features. As this feature is outside of proposed work areas, no impacts are anticipated.	ACOE/CDFW/ RWQCB	NA	4	Photograph 5
AF6	Ephemeral drainage	East of pole Location 17 and immediately west of Heritage Road	Ephemeral drainage with an OHWM and connectivity dominated by San Diego marsh elder (<i>Iva hayesiana</i> , FACW) and mule fat. The ephemeral drainage is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state. As the project transmission line spans this feature, no impacts are anticipated.	ACOE/CDFW/ RWQCB	NA	5	Photograph 6
AF7	Swale	Between Location 21 and Location 22	Non-jurisdiction swale dominated by disturbed vegetation, including castor bean and non-native upland grasses. This feature is not considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state due to lack of OHWM, defined streambed, and dissipation of flow to upland vegetation south of the project access road.	Non- jurisdictional	NA	6	Photograph 7
AF8	Swale	Between poles Location 26 and Location 27	Non-jurisdiction swale dominated by disturbed vegetation, including castor bean and non-native upland vegetation. Incidental patches of giant reed (Arundo donax, FACW) occur north of the project access road. The swale is not considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state due to lack of OHWM or defined streambed. Feature 8 sheet flows across a maintained, unpaved, unculverted, existing project access road.	Non- jurisdictional	NA	6	Photograph 8
AF9	Swale	Directly east of Location 27	Non-jurisdictional swale dominated by upland non-native grasses. The swale is not considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state due to lack of OHWM or defined streambed. Feature 9 sheet flows across a maintained, unpaved, unculverted, existing project access road.	Non- jurisdictional	NA	6	Photograph 9

Aquatic Feature Number	Description	Location Description	Jurisdictional Determination Reasoning	Agency Jurisdiction	Sample Point	Map Page Number	Photograph
AF10	Ephemeral drainage	Between Location 32 and Location 33	Ephemeral drainage dominated by disturbed vegetation, including castor bean and purple falsebrome (<i>Brachypodium distachyon</i> , UPL). The ephemeral drainage exhibits an average 1-foot wide OHWM and streambed with cut banks ranging from .5-1.5 feet. This un-named tributary of the Otay River is considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state. The drainage channel of Feature 10 flows across a maintained, unpaved, unculverted, existing project access road. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	7	Photograph 10
AF11	Ephemeral drainage	East of Location 36	Ephemeral drainage with fringing riparian scrub vegetation dominated by desert fragrance (<i>Ambrosia</i> [<i>Hymenoclea</i>] <i>monogyra</i> , UPL) with occasional mule fat. The drainage channel of this feature is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state, while the riparian scrub fringing the drainage is likely CDFW wetland only. The drainage channel of Feature 11 flows across a maintained, unpaved, unculverted, existing project access road. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	8	Photograph 11
AF12	Swale	Between Location 38 and Location 39	Non-jurisdictional swale dominated by upland grass species. The swale is not considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state due to lack of OHWM or defined streambed, dissipating south of the project access road into upland. Water conveyed by Feature 12 sheet flows across a maintained, unpaved, unculverted, existing project access road.	Non- jurisdictional	NA	8	Photograph 12
AF13	Adjacent weltand	North of the project from Location 38 east to Location 42	Adjacent wetland to the Otay River composed of disturbed riparian scrub dominated by mule fat, blue elderberry (Sambucus nigra, FAC), salt cedar, black willow, southwestern spiny rush (Juncus acutus ssp. leopoldii, FACW), and desert fragrance. The adjacent wetland area of Feature 13 exhibits areas of standing surface water and is likely considered ACOE wetland water of the US, CDFW riparian wetland, and RWQCB water of the state.	ACOE/CDFW/ RWQCB	NA	8 and 9	Photograph 13

Aquatic Feature Number	Description	Location Description	Jurisdictional Determination Reasoning	Agency Jurisdiction	Sample Point	Map Page Number	Photograph
AF14	Ephemeral drainage	South of project access road and west of Location 41 extending to the north and west	Ephemeral drainage and un-named tributary to the Otay River dominated by upland lemonade berry (<i>Rhus integrifolia</i> , UPL). Feature 14 is characterized by an approximately 1 to 1.5 foot OHWM and streambed, and intersects an existing project access road approximately 100 feet west of Location 41, where is redirected to the west by an existing road berm. The feature continues along the cobbled north shoulder of the access road for approximately 100 feet to the west, before turning north through an installed energy dissipater and entering the Otay River floodplain. The ephemeral drainage is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	9	Photograph 14
AF15	Swale	South of Location 43	is a non-jurisdictional swale containing upland lemonade berry, fennel (<i>Foeniculum vulgare</i> , UPL), and upland grasses. Feature 13 is not considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state due to lack of OHWM or defined streambed; however, sufficient flow occurs within the feature south of the Location 43 resulting in occasional areas of noncontiguous erosion and scouring, before flow dissipates immediately south of Location 43 into upland. Feature 15 sheet flows across a maintained, unpaved, unculverted, existing project access road.	Non- jurisdictional	NA	9	Photograph 15
AF16	Swale	Between Location 46 and Location 47	is a non-jurisdictional swale containing non-native grassland vegetation dominated by rip-gut brome (<i>Bromus diandrus</i> , UPL) and slender wild oat (<i>Avena barbata</i> , UPL) (Photograph 16, Map Page 10). Feature 16 is located in between Location 46 and Location 47. The swale is not considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state due to lack of OHWM or defined streambed. Feature 16 sheet flows across a maintained, unpaved, unculverted, existing project access road.	Non- jurisdictional	NA	10	Photograph 16
AF17	Man-made storm water system	East of Locations 50.1 and 50.2	Non-jurisdictional concrete brow ditch and energy dissipater east of Locations 50.1 and 50.2 constructed wholly in uplands and designed to drain upland fill slope of a freeway bridge abutment. This feature is a constructed BMP and; therefore, is likely exempt from jurisdiction. Feature 17 sheet flows across a maintained, concrete Arizona crossing on an existing project access road.	Non- jurisdictional	NA	10	Photograph 17

Aquatic Feature Number	Description	Location Description	Jurisdictional Determination Reasoning	Agency Jurisdiction	Sample Point	Map Page Number	Photograph
AF18	Swale	Within String Site 14; Between Location 52 and Location 53	Non-jurisdictional swale containing red brome (<i>Bromus madritensis</i> ssp. <i>rubens</i> , UPL), fennel, and sparse, occasional, mule fat. The swale is not considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state due to lack of OHWM or defined streambed, dissipating north of the project access road into upland non-native grasses. Feature 18 sheet flows across a maintained, unpaved, unculverted, existing project access road.	Non- jurisdictional	NA	11	Photograph 18
AF19	Erosional feature	East and south of Location 55	Non-jurisdictional erosional feature occurring along the shoulder of an unmaintained dirt access road. This feature lacks OHWM and a defined bed and bank. Feature 19 sheet flows across a maintained, unpaved, unculverted, existing project access road.	Non- jurisdictional	NA	11 and 12	Photograph 19
AF20	Ephemeral drainage	Approximately 25 feet west of Location 56	Vegetated ephemeral drainage with an OHWM and connectivity dominated by fennel and mule fat. The ephemeral drainage is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state. The drainage channel of Feature 20 flows across a maintained, unpaved, unculverted, existing project access road. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	12	Photograph 20
AF21	Ephemeral drainage	Between Location 57 and Location 58	Un-vegetated ephemeral drainage with an OHWM and connectivity. The ephemeral drainage is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state. The drainage channel of Feature 21 flows beneath the maintained project access road via two approximately 2-foot-diameter corrugated pipe culverts. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	12	Photograph 21
AF22	Emergent wetland	Approximately 7 feet east of Location 59	Emergent wetland dominated by beardless wild-rye (<i>Elymus triticoides</i> , FAC). The wetland is not associated with a streambed, but rather is a closed-depressional feature and; therefore, is not considered jurisdictional by CDFW. The wetland is likely considered an ACOE wetland water of the U.S. and RWQCB water of the state. The replacement pole will be installed west of the existing pole, and will not impact this feature.	ACOE and RWQCB	SP3	12	Photograph 22

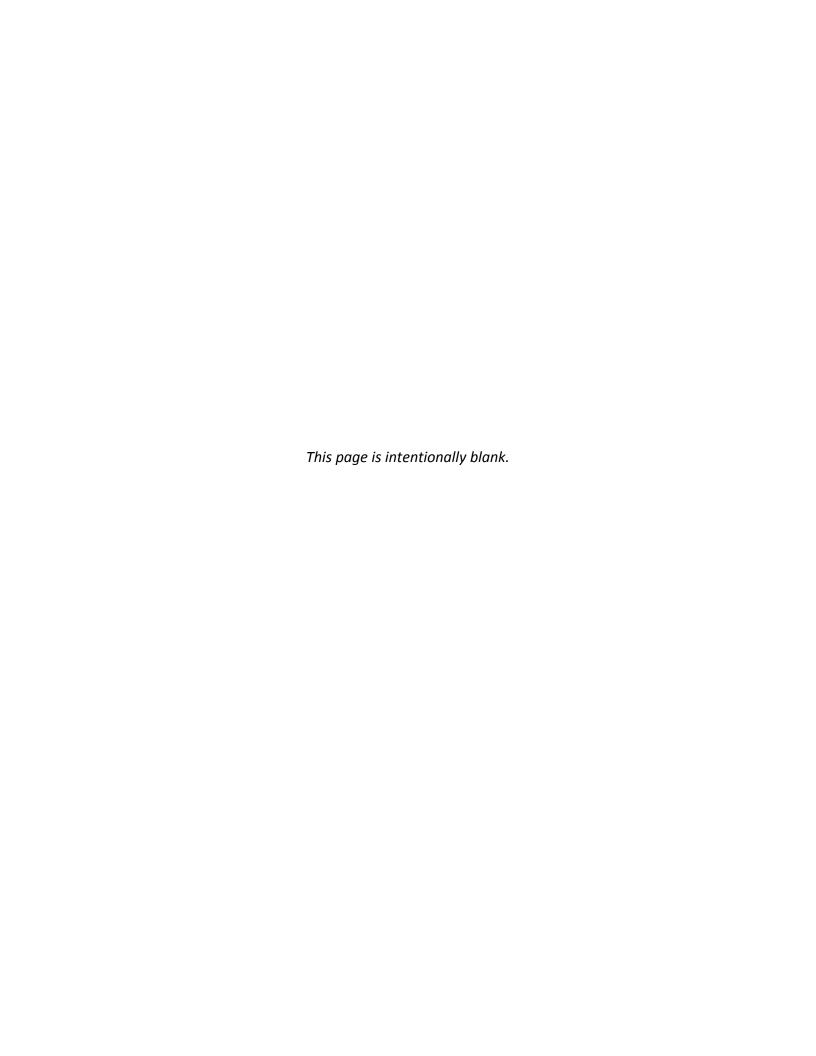
Aquatic Feature Number	Description	Location Description	Jurisdictional Determination Reasoning	Agency Jurisdiction	Sample Point	Map Page Number	Photograph
AF23	Swale	Between Locations 60 and Locations 61 and spur road to location 60	Non-jurisdictional swale containing non-native grassland vegetation dominated by broom baccharis (<i>Baccharis sarothroides</i> , FACU), ripgut grass, and slender wild oat. The swale is not considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state due to lack of OHWM or defined streambed. Feature 23 sheet flows across a maintained, unpaved, unculverted, existing project spur road and continues to the north across an existing project access road.	Non- jurisdictional	NA	13	Photograph 23
AF24- north of access road	Ephemeral drainage	Approximately 40 feet northeast of Location 62	Ephemeral drainage containing non-native grassland vegetation dominated by slender wild oat. The ephemeral drainage is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state characterized by an approximately 1.5 foot OHWM and streambed north of the existing project access road.	ACOE/CDFW/ RWQCB	NA	13	Photograph 24
AF 24 – south of access road	Swale	Approximately 40 feet northeast of Location 62	South of the existing project access road (upstream of the defined channel), Feature 24 is characterized as a non-jurisdictional swale lacking an OHWM or defined streambed, and is dominated by non-native grassland vegetation. Feature 24 flows across a maintained, unpaved, unculverted, existing project access road. Project activity includes vehicular access through the drainage as it crosses the road.	Non- jurisdictional	NA	13	Photograph 24
AF25	Ephemeral drainage	Between Location 65 and Location 66	Ephemeral drainage and un-named tributary of the Otay River dominated by broom baccharis with an understory dominated by California fuchsia (<i>Epilobium canum</i>). The ephemeral drainage is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state. The drainage channel of Feature 25 flows across a maintained, unpaved, unculverted, existing project access road. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	14	Photograph 25

Attachment 1: Aquatic Features Occurring with the TL 649 Project Area

Aquatic Feature Number	Description	Location Description	Jurisdictional Determination Reasoning	Agency Jurisdiction	Sample Point	Map Page Number	Photograph
AF26	Emergent wetland	East-northeast of Location 69	Emergent marsh dominated by Italian ryegrass (Lolium perenne, FAC) and common rush (Juncus effusus, FACW). This feature is likely considered an ACOE wetland water of the U.S. and RWQCB water of the state. The emergent wetlands at Feature 26 are located directly south of the existing access road, is not associated with a streambed and; therefore is not considered jurisdictional by CDFW. This feature is located immediately south of the existing project access road, and is not expected to be impacted by vehicular use.	ACOE and RWQCB	SP9	15	Photograph 26
AF27	Ephemeral drainage	Southwest of Location 70	Ephemeral drainage and unnamed tributary of the Otay River dominated by upland coastal sage scrub vegetation. The ephemeral drainage is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state. The drainage channel of Feature 27 flows across a maintained, unpaved, unculverted, existing project access road. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	16	Photograph 27
AF28	Ephemeral stream	Between Location 74 and Location 75, south and west of Location 77, and east of Location 78	Ephemeral stream and unnamed tributary of the Otay River. The ephemeral stream is characterized by a cobbled bed with upland broom baccharis and Tecate cypress (<i>Cupressus forbesii</i> ; UPL) occurring on the banks. The feature is likely considered an ACOE nonwetland water of the U.S., CDFW streambed, and RWQCB water of the state. Portions of the project access road cross this feature northwest of Location 77 and east of Location 78. This feature flows across several portions of maintained, unpaved, unculverted, existing project access road. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	17	Photograph 28
AF29	Riparian scrub	Northwest of Stringing Site 20	Fringing riparian scrub vegetation dominated by mule fat, and black willow associated with Feature 28. Although the drainage channel of Feature 28 is likely considered an ACOE non-wetland water of the U.S., CDFW streambed, and RWQCB water of the state, the riparian scrub of Feature 29 fringing the drainage is likely CDFW riparian only. The riparian area of feature 29 extends to the south immediately adjacent to an existing dirt access road. This feature is located immediately north of the existing project access road, and is not expected to be impacted by vehicular use. Additionally, as the project transmission line spans this feature, no impacts are anticipated.	CDFW	NA	17	Photograph 29

Attachment 1: Aquatic Features Occurring with the TL 649 Project Area

Aquatic Feature Number	Description	Location Description	Jurisdictional Determination Reasoning	Agency Jurisdiction	Sample Point	Map Page Number	Photograph
AF30	Ephemeral stream	Along access road Between Location 86 and Location 87	Un-named tributary of the Otay River containing southern willow scrub dominated by arroyo willow (<i>Salix lasiolepis</i> , FACW) and mulefat. This feature is likely considered an ACOE wetland water of the U.S., CDFW streambed, and RWQCB water of the state. The drainage channel of Feature 30 flows beneath a concrete bridge on the maintained access road via a culvert. The drainage area extends to the west below the project alignment south of Location 86. Project activity includes vehicular access through the drainage as it crosses the road. Additionally, as the project transmission line spans this feature, no impacts are anticipated.	ACOE/CDFW/ RWQCB	SP20	19 and 20	Photograph 30
AF31	Ephemeral drainage	West of Location 100	Ephemeral drainage with an OHWM and connectivity containing disturbed wetland and emergent marsh vegetation. The disturbed wetland vegetation south of the project access road is dominated by salt cedar. The emergent marsh wetland north of the project access road is dominated by San Diego marsh elder. Flowing water within the channel was present at the time of the survey effort. The ephemeral drainage is likely considered an ACOE wetland water of the U.S., CDFW streambed, and RWQCB water of the state. The drainage channel of Feature 31 flows beneath the maintained project access road via a culvert. Project activity includes vehicular access through the drainage as it crosses the road.	ACOE/CDFW/ RWQCB	NA	22 and 23	Photograph 31
AF32	Erosional feature	East of Stringing Site 27 and Location 109, extending south to Location 116	Non-jurisdictional erosional feature apparently formed by the formation of a road berm east of the Project access road and agricultural land activities to the east. The feature is expected to carry surface water runoff, and does not directly connect to a TNW.	Non- jurisdictional	NA	24, 25 and 26	Photograph 32



Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP1	No	NA	Vegetated	Approximately 40 feet northeast of Location 60	Located on a utility access road. This pool is dominated by beard grass (<i>Polypogon monspeliensis</i> , FACW) and Italian rye grass (<i>festuca perennis</i> , FAC). This pool is hydrologically connected to Vernal pool 2011-VP-12 by a non-jurisdictional swale. Although vernal pool indicator species were not observed at the time of the survey, during periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools.	SP5	13	Photograph 33
VP2	Yes	2011-VP- 12	Vegetated	Located on the spur road to Location 60	Located on a utility access road. Vegetation within the pool is dominated by grass poly and slender wooly heads (<i>Psilocarphus tenellus</i> , OBL). This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	13	Photograph 34
VP3	Yes	2010-VP- 14	Unvegetated	Approximately 150 feet west of Location 63	Located within access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	14	Photograph 35
VP4	Yes	2011-VP- 11	Unvegetated	Approximately 55 feet east of Location 63, and 75 feet west of Location 63.1	Located within access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. Located within access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	14	Photograph 36
VP5	Yes	2009-VP- 36	Unvegetated	Approximately 35 feet northwest of Location 67	Located within access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	SP6	15	Photograph 37
VP6	Yes	2009-VP- 37	Unvegetated	Approximately 120 feet southwest of Location 69	Located within access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	SP7	15	Photograph 38

Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP7	Yes	2011-VP- 10	Vegetated	Immediately southwest of Location 69	Located within an access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. At the time of the survey the pool was sparsely vegetated by slender wooly heads along the southern road shoulder. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	15	Photograph 39
VP8	No	NA	Vegetated	Approximately 120 feet north of Location 69	Located within an access road, delineated during the 2015 survey effort, located on an alternate utility access road. At the time of the survey, vegetation within the pool included grass poly (<i>Lythrum hyssopifolium</i> , OBL). This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	SP45	15	Photograph 40
VP9	No	NA	Vegetated	Approximately 145 feet northeast of Location 69	Located within an access road, delineated during the 2015 survey effort, located on an alternate utility access road. At the time of the survey, vegetation within the pool included grass poly, slender wooly heads, and common rush. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	SP44	15	Photograph 41
VP10	Yes	2009-VP- 38	Unvegetated	Immediately southwest of Location 69	Located within an access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road immediately southwest of Location 69 (Photograph 42, Map Page 16, SP 8). This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	SP8	15	Photograph 42
VP11	Yes	2011-VP- 09	Vegetated	Immediately south of Location 72	Located within an access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was dominated by slender wooly heads.	NA	16	Photograph 43
VP12	Yes	2010-VP- 15	Vegetated	Located north of Location 75 and Location 0 approximately 60 feet north of stringing site 20	Naturally occurring vernal pool within the Otay River floodplain and was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. Wooly marbles (<i>Psilocarphus brevissmus ssp. brevissmus</i> , OBL) was observed to occur within this pool during the 2014 and 2015 survey efforts. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	17	Photograph 44

Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP13	Yes	2011-VP- 08	Vegetated	Approximately 200 feet west of Location 77	Located within an access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	SP10	17	Photograph 45
VP14	Yes	2011-VP- 07	Unvegetated	Approximately 210 feet southwest of Location 77	Located within an access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	SP11	17	Photograph 46
VP15	Yes	2010-VP- 21	Vegetated	Approximately 100 feet southwest of Location 84	Naturally occurring vernal pool located within the San Diego mesa claypan vernal pool complex west of location 84 and was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	19	Photograph 47
VP16	Yes	2010-VP- 04	Vegetated	Approximately 50 feet southwest of Location 84	Naturally occurring vernal pool located within the San Diego mesa claypan vernal pool complex west of location 84 and was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	19	Photograph 67
VP17	Yes	2010-VP- 10	Vegetated	Approximately 75 feet south- southwest of Location 84	Naturally occurring vernal pool located within the San Diego mesa claypan vernal pool complex west of location 84 and was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	19	Photograph 67
VP18	Yes	2009-VP- 48	Vegetated	Approximately 15 feet south of Location 85	Located within an access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. At the time of the survey, vegetation within the pool was included wooly marbles, beard grass, and Italian rye grass. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	19	Photograph 47

Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP19	Yes	2009-VP- 47	Vegetated	Approximately 100 feet south of Location 85	Located within an access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included wooly marbles, beard grass, and Italian rye grass.	NA	19	Photograph 48
VP20	No	NA	Vegetated	Approximately 85 feet north of Location 86	Located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included wooly marbles and beardless wild rye.	SP48	19	Photograph 49
VP21	No	NA	Unvegetated	Approximately 30 feet northeast of Location 86	Located on a utility access road. Although vernal pool indicator species were not observed at the time of the survey, during periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools. If vernal pool indicator species are observed, this pool is may be considered jurisdictional by ACOE and RWQCB due to hydrology and connectivity with the surrounding, natural, vernal pool areas.	SP19	19	Photograph 50
VP22	Yes	2011-VP- 05	Vegetated	Approximately 50 feet west of Location 87	Naturally occurring vernal pool located within the San Diego mesa claypan vernal pool complex west of location 87 and was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. San Diego button celery (<i>Eryngium aristulatum ssp. parishii;</i> OBL) was observed to occur within this pool during the 2014 and 2015 survey efforts. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. Note: CDFW has jurisdiction over San Diego button celery through CESA.	NA	20	Photograph 67
VP23	Yes	2009-VP- 40	Vegetated	Approximately 60 feet northwest of Location 89	Naturally occurring vernal pool located within the San Diego mesa claypan vernal pool complex west of location 89 and was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	20	Photograph 67

Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP24	Yes	2009-VP- 41	Vegetated	Approximately 45 feet west of Location 89	Naturally occurring vernal pool located within the San Diego mesa claypan vernal pool complex west of location 89 and was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	20	Photograph 67
VP25	Yes	2010-VP- 01	Vegetated	Approximately 10 feet south of Location 89	Located within an access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included toad rush (<i>Juncus bufonius</i> , FACW), wooly marbles, beard grass, and Italian rye grass.	SP21	20	Photograph 51
VP26	No	NA	Vegetated	Approximately 120 feet north of Location 90	Located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool included, Mediterranean barley (Hordeum marinum, FAC), wooly marbles, beard grass, Italian rye grass, Australian saltbush (Atriplex semibaccata, FAC).	SP22	20	Photograph 52
VP27	Yes	2011-VP- 06	Vegetated	Approximately 110 feet north of Location 90	Disturbed vernal pool located immediately west of the existing utility road shoulder and east of the Donovan State Prison road within a depression. This pool was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	20	Photograph 53
VP28	Yes	2011-VP- 06	Vegetated	Approximately 115 feet north of Location 90	Located within an access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included toad rush, Mediterranean barley, wooly marbles, beard grass, and Italian rye grass.	SP23	20	Photograph 54

Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP29	No	NA	Vegetated	Approximately 20 feet southeast of Location 90	R Located on Donovan State Prison access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool included, Mediterranean barley, wooly marbles, Italian rye grass, and wild oat.	SP24	20	Photograph 55
VP30	No	NA	Vegetated	Approximately 25 feet southwest of Location 90	Located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool included wooly marbles.	NA	20	Photograph 56
VP31	No	NA	Vegetated	Approximately 10 feet north of Location 91	Located within an access road, dominated by Italian ryegrass, woolly marbles, Mediterranean barley, and Australian saltbush in a dirt access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	SP25	21	Photograph 57
VP32	No	NA	Vegetated	Approximately 15 feet southeast of Location 90	Located on Donovan State Prison access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool included beard grass and Italian rye grass.	SP26	21	Photograph 58
VP33	No	NA	Vegetated	Approximately 40 feet south of Location 91	Located on access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included toad rush Mediterranean barley, wooly marbles, and Italian rye grass.	SP27	21	Photograph 59
VP34	Yes	2011-VP- 04 and 2009-VP- 43	Vegetated	Approximately 65 feet north of Location 92	Located on access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. The 2011 mapped limits of the pool extend beyond the east road shoulder to a low lying depression located between the existing utility access road and the Donovan State Prison Access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included toad rush Mediterranean barley, grass poly, toad rush, and Italian rye grass.	SP28	21	Photograph 60

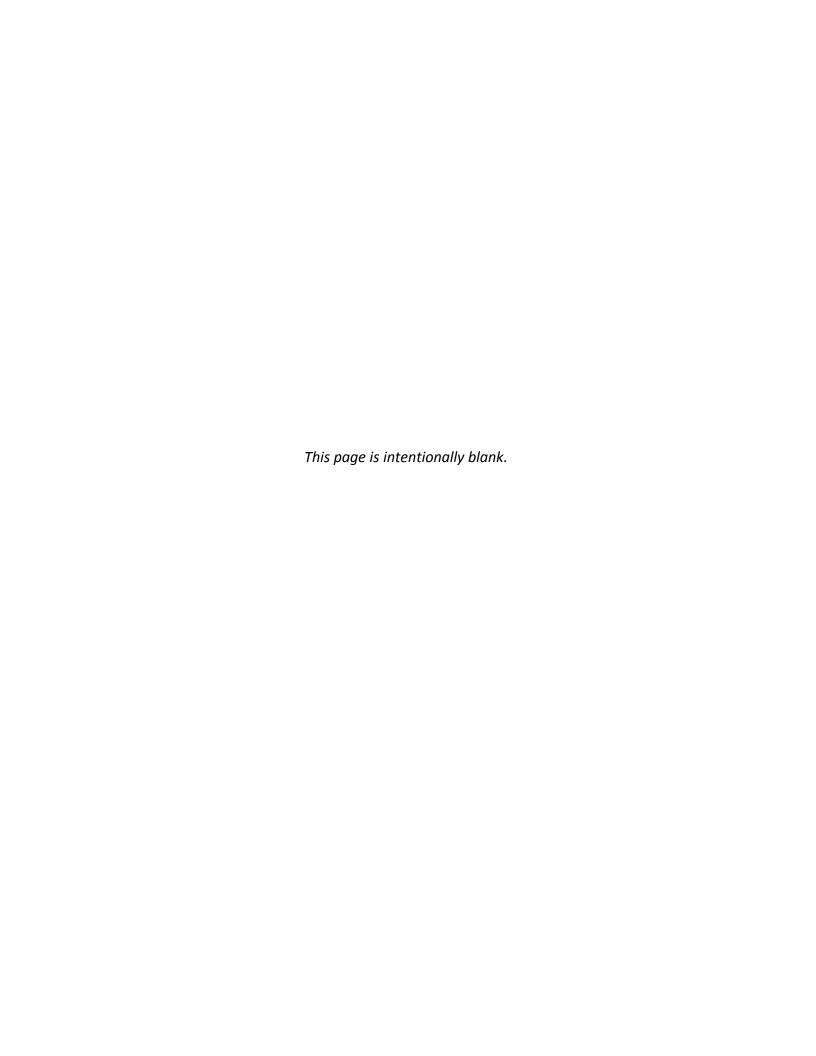
Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP35	No	NA	Vegetated	Approximately 70 feet northeast of Location 92	Located on Donovan State Prison access road. At the time of the survey, vegetation within the pool included beard grass and Italian rye grass. Although vernal pool indicator species were not observed at the time of the survey, during periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools. If vernal pool indicator species occur, this pool is may be considered jurisdictional by ACOE and RWQCB due to hydrology and connectivity with the surrounding, natural, vernal pool areas.	SP29	21	Photograph 60
VP36	No	NA	Vegetated	Approximately 20 feet east- northeast of Location 92	Located on Donovan State Prison access road. At the time of the survey, vegetation within the pool included beard grass and Italian rye grass. Although vernal pool indicator species were not observed at the time of the survey, during periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools. If vernal pool indicator species occur, this pool is may be considered jurisdictional by ACOE and RWQCB due to hydrology and connectivity with the surrounding, natural, vernal pool areas.	SP30	21	Photograph 60
VP37	Yes	2009-VP- 44	Vegetated		Road rut, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included Italian rye grass, beard grass, and wooly marbles.	SP31	21	Photograph 61
VP38	Yes	2011-VP- 03	Vegetated	Approximately 55 feet south of Location 92	Disturbed vernal pool located immediately west of the existing utility road shoulder and east of the Donovan State Prison road within a depression. This pool was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	21	Photograph 61

Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP39	Yes	2009-VP- 45	Vegetated	Approximately 90 feet southwest of Location 92	Located on access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included wooly marbles.	NA	21	Photograph 62
VP40	No	NA	Vegetated	Approximately 105 feet south of Location 92	Located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool included wooly marbles.	NA	21	Photograph 62
VP41	No	NA	Vegetated	Approximately 125 feet northeast of Location 93	Located on Donovan State Prison access road. At the time of the survey, vegetation within the pool included beard grass and Italian rye grass. Although vernal pool indicator species were not observed at the time of the survey, during periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools. If vernal pool indicator species occur, this pool is may be considered jurisdictional by ACOE and RWQCB due to hydrology and connectivity with the surrounding, natural, vernal pool areas.	SP32	21	Photograph 62
VP42	No	NA	Vegetated	Approximately 85 feet northeast of Location 93	Located on Donovan State Prison access road. At the time of the survey, vegetation within the pool included beard grass and Italian rye grass. Although vernal pool indicator species were not observed at the time of the survey, during periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools. If vernal pool indicator species occur, this pool is may be considered jurisdictional by ACOE and RWQCB due to hydrology and connectivity with the surrounding, natural, vernal pool areas.	SP33	21	Photograph 62
VP43	Yes	2011-VP- 02	Vegetated		Disturbed vernal pool located immediately west of the existing utility road shoulder and east of the Donovan State Prison road within a depression. This pool was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report and is likely considered jurisdictional by ACOE and RWQCB.	NA	21	Photograph 62

Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP44	Yes	2009-VP- 46	Vegetated	immediately west of Location 91	Located on access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included Mediterranean barley, wooly marbles, and Italian rye grass.	SP34	21	Photograph 63
VP45	Yes	2010-VP- 13	Vegetated	Approximately 115 feet southwest of Location 93	Naturally occurring vernal pool located within the San Diego mesa claypan vernal pool complex west of location 93 (Photograph 63, Map Page 21). This pool occurs approximately 115 feet southwest of location 93 and was previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report. This vernal pool is likely considered jurisdictional by ACOE and RWQCB.	NA	21	Photograph 63
VP46	No	NA	Vegetated	Approximately 60 feet southeast of Location 93	Located on Donovan State Prison access road. At the time of the survey, vegetation within the pool included beard grass and Italian rye grass. Although vernal pool indicator species were not observed at the time of the survey, during periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools. If vernal pool indicator species occur, this pool is may be considered jurisdictional by ACOE and RWQCB due to hydrology and connectivity with the surrounding, natural, vernal pool areas.	SP35	21	Photograph 63
VP47	Yes	2011-VP- 13	Vegetated	Approximately 80 feet south of Location 94	Located on access road, previously delineated during the 2009 Vernal Pool Data Accuracy Assessment Report, located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool was included Mediterranean barley, wooly marbles, Italian rye grass, and sea spurreys (<i>Spergularia</i> sp., FACW).	SP36	21 & 22	Photograph 64

Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP48	No	NA	Vegetated	Approximately 130 feet southeast of Location 94	Located on Donovan State Prison access road. At the time of the survey, vegetation within the pool included beard grass, wild oat, and Australian saltbush. Although vernal pool indicator species were not observed at the time of the survey, during periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools. If vernal pool indicator species occur, this pool is may be considered jurisdictional by ACOE and RWQCB due to hydrology and connectivity with the surrounding, natural, vernal pool areas.	SP37	21 & 22	Photograph 64
VP49	No	NA	Vegetated	adjacent to and north of Location 95	Located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool included wooly marbles, beard grass, and Italian rye grass.	SP38	22	Photograph 65
VP50	No	NA	Vegetated	Approximately 40 feet east of Location 95	Located on Donovan State Prison access road. At the time of the survey, vegetation within the pool included sea spurreys and cow thistle (<i>Sonchus oleraceous</i> , UPL); however, this pool exhibits hydrological connectivity to adjacent vernal pools 48 and 50, as well as the natural San Diego mesa claypan vernal pool habitat to the west. Vernal pool indicator species were not observed to occur at the time of the survey. During periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools. If vernal pool indicator species are observed, this pool may be considered jurisdictional by ACOE and RWQCB due to hydrology and connectivity with the surrounding, natural, vernal pool areas.	SP39	22	Photograph 65
VP51	No	NA	Vegetated	Approximately 75 feet south of Location 95	Located on a utility access road. This vernal pool is likely considered jurisdictional by ACOE and RWQCB. At the time of the survey, vegetation within the pool included wooly marbles and beard grass.	SP40	22	Photograph 66

Vernal Pool Number	Included in Baseline	AECOM Pool Number	Vegetated or Unvegetated during time of survey	Location Description	Jurisdictional Determination Reasoning	Sample Point	Map Page Number	Photograph
VP52	No	NA	Vegetated	Approximately 75 feet southeast of Location 95	Located on Donovan State Prison access road. At the time of the survey, vegetation within the pool included cow thistle and sea spurreys; however, this pool exhibits hydrological connectivity to adjacent vernal pools (VP 50), as well as the natural San Diego mesa claypan vernal pool habitat to the west. Vernal pool indicator species were not observed at the time of the survey. During periods of sufficient rainfall and inundation, this road rut may support the vernal pool indicator species due to proximity to adjacent vernal pools. If vernal pool indicator species are observed, this pool may be considered jurisdictional by ACOE and RWQCB due to hydrology and connectivity with the surrounding, natural, vernal pool areas.	SP41	22	Photograph 65





Photograph 1: Feature 1 is a vegetated drainage and emergent wetland located between Location 1 and Location 2. As the project transmission line spans this feature, no impacts are anticipated. Photograph taken facing northeast



Photograph 2: Feature 2 is an ephemeral drainage located between Location 3 and Location 4. As the project transmission line spans this feature, no impacts are anticipated. Photograph taken facing southwest.



Photograph 3: Feature 3 an ephemeral drainage located between Location 6 and Location 7. Photograph taken facing west. Project activity includes vehicular access through the drainage as it crosses the road.



Photograph 4: Feature 4 is a man-made detention basin located southwest of Location 5. As this feature is outside of proposed work areas, no impacts are anticipated. Photograph taken facing northwest.



Photograph 5: Feature 5 is a vegetated drainage located southeast of location 14. As this feature is outside of proposed work areas, no impacts are anticipated. Photograph taken facing north.



Photograph 6: Feature 6 is an ephemeral drainage located east of pole Location 17 and immediately west of Heritage Road. As the project transmission line spans this feature, no impacts are anticipated. Photograph taken facing east.



Photograph 7: Feature 7 is a non-jurisdiction swale located between Location 21 and Location 22. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing southeast.



Photograph 8: Feature 8 is a non-jurisdiction swale located between Location 26 and Location 27. Feature 8 sheet flows across a maintained, unpaved, unculverted, existing project access road and dissipates into upland. Photograph taken facing northwest.



Photograph 9: Feature 9 is a non-jurisdictional swale directly east of Location 27. Feature 9 sheet flows across a maintained, unpaved, unculverted, existing project access road and dissipates into upland. Photograph taken facing northwest.



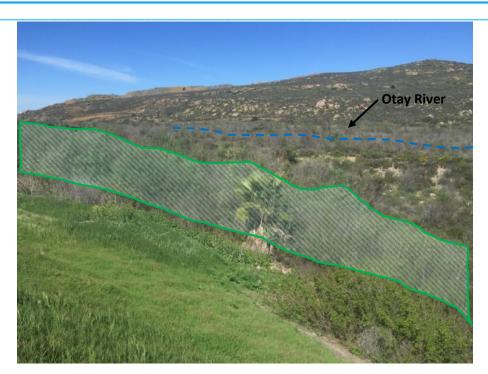
Photograph 10: Feature 10 is an ephemeral drainage located between Location 32 and Location 33. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing northeast.



Photograph 11: Feature 11 is an ephemeral drainage located east of Location 36. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing east.



Photograph 12: Feature 12 is a non-jurisdictional swale located between Location 38 and Location 39. Water conveyed by Feature 12 sheet flows across a maintained, unpaved, unculverted, existing project access road and dissipates into upland. Photograph taken facing north.



Photograph 13: Feature 13 is an adjacent wetland within the floodplain of the Otay River. The feature occurs north of the project from Location 38 east to Location 42.



Photograph 14: Feature 14 is an ephemeral drainage and un-named tributary of the Otay River. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing northwest, where feature exits road into floodplain.



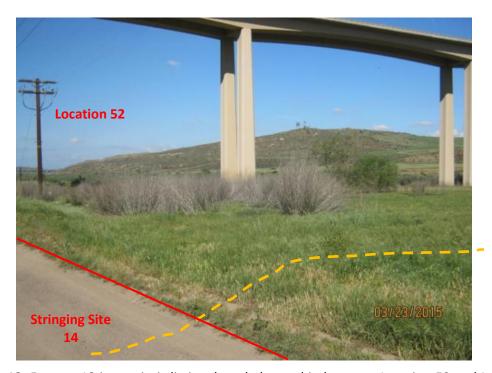
Photograph 15: Feature 15 is a non-jurisdictional swale. Feature 15 sheet flows across a maintained, unpaved, unculverted, existing project access road near location 43. Photograph taken facing south.



Photograph 16: Feature 16 is non-jurisdictional swale located in between Location 46 and Location 47. Feature 16 sheet flows across a maintained, unpaved, unculverted, existing project access road and dissipates into upland. Photograph taken facing north.



Photograph 17: Feature 17 is a non-jurisdictional concrete brow ditch and energy dissipater east of Locations 50.1 and 50.2. Feature 17 sheet flows across a maintained, concrete Arizona crossing on an existing project access road. Photograph taken facing north.



Photograph 18: Feature 18 is non-jurisdictional swale located in between Location 52 and Location 53, and crosses Stringing Site 14. Photograph taken facing northwest.



Photograph 19: Feature 19 is a non-jurisdictional erosional feature immediately to the east of Location 55 occurring along the shoulder of an unmaintained dirt access road extending to the south of Location 55. Photograph taken facing south.



Photograph 20: Feature 20 is an ephemeral drainage located approximately 25 feet west of Location 56. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing north.



Photograph 21: Feature 21 is an un-vegetated ephemeral drainage located in between Location 57 and Location 58. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing north.



Photograph 22: Feature 22 is an isolated emergent wetland located approximately 7 feet east of Location 59. The replacement pole will be installed west of the existing pole, and will not impact this feature. Photograph taken facing north.



Photograph 23: Feature 23 is non-jurisdictional swale located in between Locations 60 and Locations 61, and intersects the existing project spur road to Location 60. Photograph taken facing west.



Photograph 24: Feature 24 is an ephemeral drainage located approximately 40 feet northeast of Location 62. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing north.



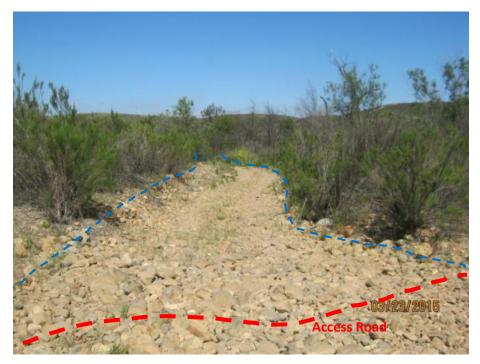
Photograph 25: Feature 25 is an ephemeral drainage located in between Location 65 and Location 66. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing northwest.



Photograph 26: Feature 26 is a jurisdictional emergent marsh located east-northeast of Location 69. This feature is located immediately south of the existing project access road, and are not expected to be impacted by vehicular use. Photograph taken facing south.



Photograph 27: Feature 27 is an ephemeral drainage located southwest of Location 70. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing south.



Photograph 28: Feature 28 is a ephemeral stream and unnamed tributary of the Otay River located in between Location 74 and Location 75, south and west of Location 77, and east of Location 78. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing northwest.



Photograph 29: Feature 29 is characterized as fringing riparian scrub vegetation located immediately north of the existing project access road near location 75, and is not expected to be impacted by vehicular use. Photograph taken facing north.



Photograph 30: Feature 30 is a drainage and un-named tributary of the Otay River occurring along an access road between Location 86 and Location 87. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing northeast.



Photograph 31: Feature 31 is an ephemeral drainage with CDFW riparian scrub habitat located west of Location 100. Project activity includes vehicular access through the drainage as it crosses the road. Photograph taken facing southwest.



Photograph 32: Feature 32 is a non-jurisdictional erosional feature east of Stringing Site 27 and Location 109, extending south to Location 116. The feature is expected to carry surface water runoff, and does not connect to a TNW. Photograph taken facing south.



Photograph 33: Vernal pool 1 is located on a utility access road approximately 40 feet northeast of Location 60. Photograph taken facing west.



Photograph 34: Vernal pool 2 (vernal pool 2011-VP-12) is located on the spur road to Location 60. Photograph taken facing west.



Photograph 35: Vernal pool 3 (vernal pool 2010-VP-14) is located on a utility access road approximately 150 feet west of Location 63. Photograph taken facing east.



Photograph 36: Vernal pool 4 (vernal pool 2011-VP-11) is located on a utility access road approximately 55 feet east of Location 63, and 75 feet west of Location 63.1. Photograph taken facing east.



Photograph 37: Vernal pool 5 (vernal pool 2009-VP-36) located on a utility access road approximately 35 feet northwest of Location 67. Photograph taken facing east.



Photograph 38: Vernal pool 6 (vernal pool 2009-VP-37) is located on a utility access road approximately 120 feet southwest of Location 69. Photograph taken facing east.



Photograph 39: Vernal pool 7 (vernal pool 2011-VP-10) is located on a utility access road immediately southwest of Location 69. Photograph taken facing east.



Photograph 40: Vernal pool 8 is located on an alternate utility access road approximately 120 feet north of Location 69. Photograph taken facing north.



Photograph 41: Vernal pool 9 is located on an alternate utility access road approximately 145 feet northeast of Location 69. Photograph taken facing north.



Photograph 42: Vernal pool 10 (vernal pool 2009-VP-38) is located on a utility access road immediately southwest of Location 69. Photograph taken facing northeast.



Photograph 43: Vernal pool 11 (vernal pool 2011-VP-09) is located on a utility access road immediately south of Location 72. Photograph taken facing east.



Photograph 44: Vernal pool 12 (vernal pool 2010-VP-15) is a naturally occurring vernal pool (within a vernal pool complex) located north of Location 75 and Location 0 within the Otay River floodplain. Photograph taken facing north.



Photograph 45: Vernal pool 13 (vernal pool 2011-VP-08) is located on a utility access road approximately 200 feet west of Location 77. Photograph taken facing north.



Photograph 46: Vernal pool 14 (vernal pool 2011-VP-07) is located on a utility access road approximately 210 feet southwest of Location 77. Photograph taken facing east.



Photograph 47: Vernal pool 18 (vernal pool 2009-VP-47) is located on a utility access road approximately 15 feet south of Location 85. Photograph taken facing south.



Photograph 48: Vernal pool 19 (vernal pool 2009-VP-47) is located on a utility access road approximately 100 feet south of Location 85. Photograph taken facing south.



Photograph 49: Vernal pool 20 is located on a utility access road approximately 85 feet north of Location 86. Photograph taken facing south.



Photograph 50: Vernal pool 21 is located on the Donovan State Prison access raod approximately 30 feet northeast of Location 86. Photograph taken facing south.



Photograph 51: Vernal pool 25 (vernal pool 2010-VP-01) is located on a utility access road approximately 10 feet south of Location 89. Photograph taken facing south.



Photograph 52: Vernal pool 26 is located on a utility access road approximately 120 feet north of Location 90. Photograph taken facing south.



Photograph 53: Vernal pool 27 (vernal pool 2011-VP-06) is a vegetated depression located 110 feet north of Location 90.



Photograph 54: Vernal pool 28 (vernal pool 2010-VP-19 and 2011-VP-01) is located on a utility access road approximately 115 feet north of Location 90. Photograph taken facing north.



Photograph 55: Vernal pool 29 is located on Donovan State Prison access road approximately 20 feet southeast of Location 90. Photograph taken facing southeast.



Photograph 56: Vernal pool 30 is located on a utility access road approximately 25 feet southwest of Location 90. Photograph taken facing south.



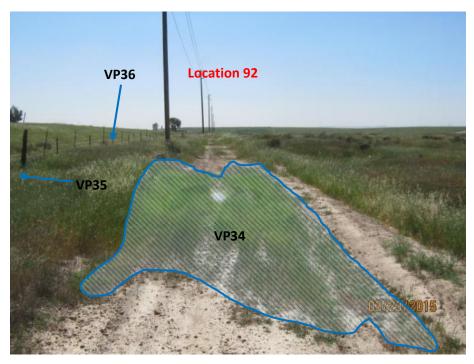
Photograph 57: Vernal pool 31 is located within an access road approximately 10 feet north of Location 91. Photograph taken facing south.



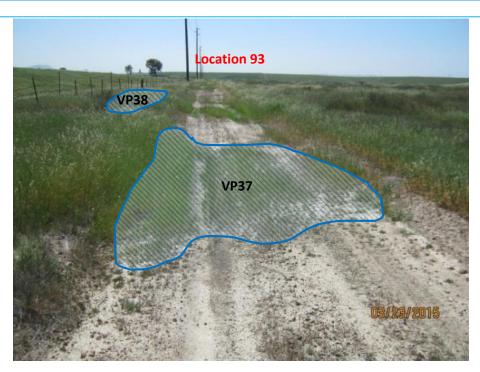
Photograph 58: Vernal pool 32 is located on Donovan State Prison access road approximately 15 feet southeast of Location 91. Photograph taken facing south.



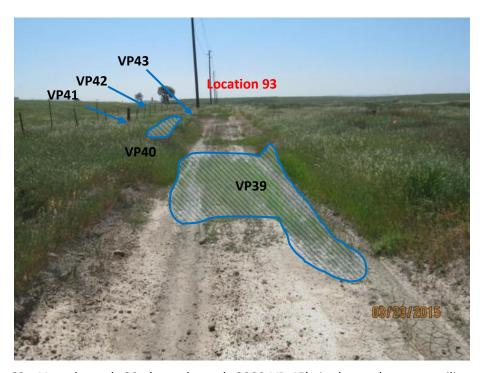
Photograph 59: Vernal pool 33 (vernal pool 2009-VP-42) is located on a utility access road approximately 40 feet south of Location 91. Photograph taken facing south.



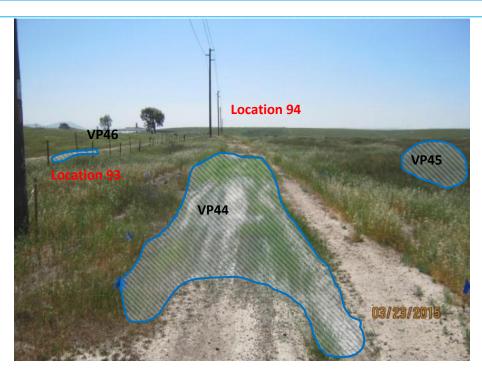
Photograph 60: Vernal pool 34 (vernal pool 2011-VP-04 and 2009-VP-43) is located on a utility access road approximately 65 feet north of Location 92. Photograph taken facing south. Vernal pool 35 and vernal pool 36 are vegetated road ruts located on the Donovan State Prison access road northeast of Location 92.



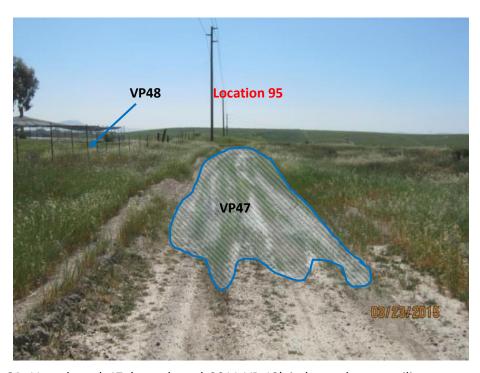
Photograph 61: Vernal pool 37 (vernal pool 2009-VP-44) is located on a utility access road approximately 80 feet south of Location 92. Vernal pool 38 within disturbed habitat east of access road. Photograph taken facing south.



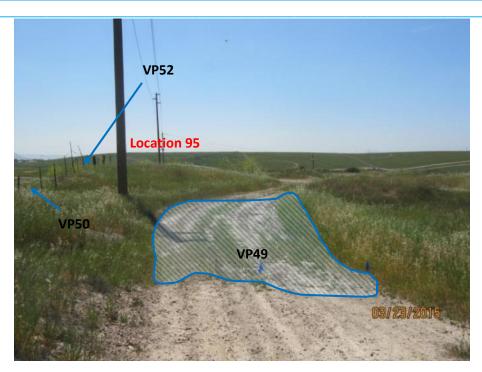
Photograph 62: Vernal pool 39 (vernal pool 2009-VP-45) is located on a utility access road approximately 90 feet southwest of Location 92. Vernal pool 40 and vernal pool 43 within disturbed habitat east of access road. Vernal pool 41 and vernal pool 42 located on Donovan State Prison access road. Photograph taken facing south.



Photograph 63: Vernal pool 44 (vernal pool 2009-VP-46) is located on a utility access road immediately west of Location 93. Vernal pool 45 within San Diego mesa claypan vernal pool habitat. Vernal pool 46 on Donovan State Prison access road. Photograph taken facing south.



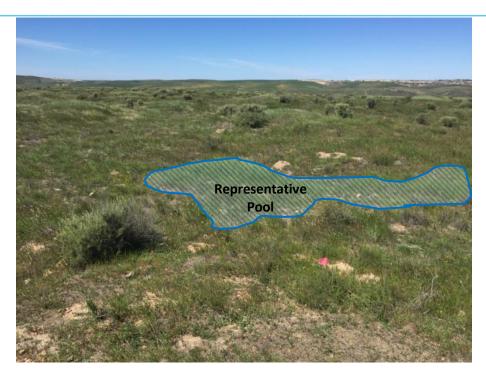
Photograph 64: Vernal pool 47 (vernal pool 2011-VP-13) is located on a utility access road located approximately 80 feet south of Location 94. Vernal pool 48 located on Donovan State Prison access road. Photograph taken facing south.



Photograph 65: Vernal pool 49 is located on a utility access road adjacent to and north of Location 95. Vernal pool 50 and vernal pool 52 are vegetated road ruts located on the Donovan State Prison access road northeast of Location 92. Photograph taken facing south.



Photograph 66: Vernal pool 51 is located on a utility access road approximately 75 feet south of Location 95. Photograph taken facing south.



Photograph 67: Representative photograph of San Diego mesa claypan vernal pool complex located west of Location 86 south to Location 97. The mesa top exhibits soil cracks, water marks, and mima mounds, in addition to vernal pool indicator species including San Diego button celery and San Diego goldenstar. Photograph taken facing northwest from Location 88. Mapped vernal pool features within this area include VP15, VP16, VP17, VP22, VP23, and VP24.

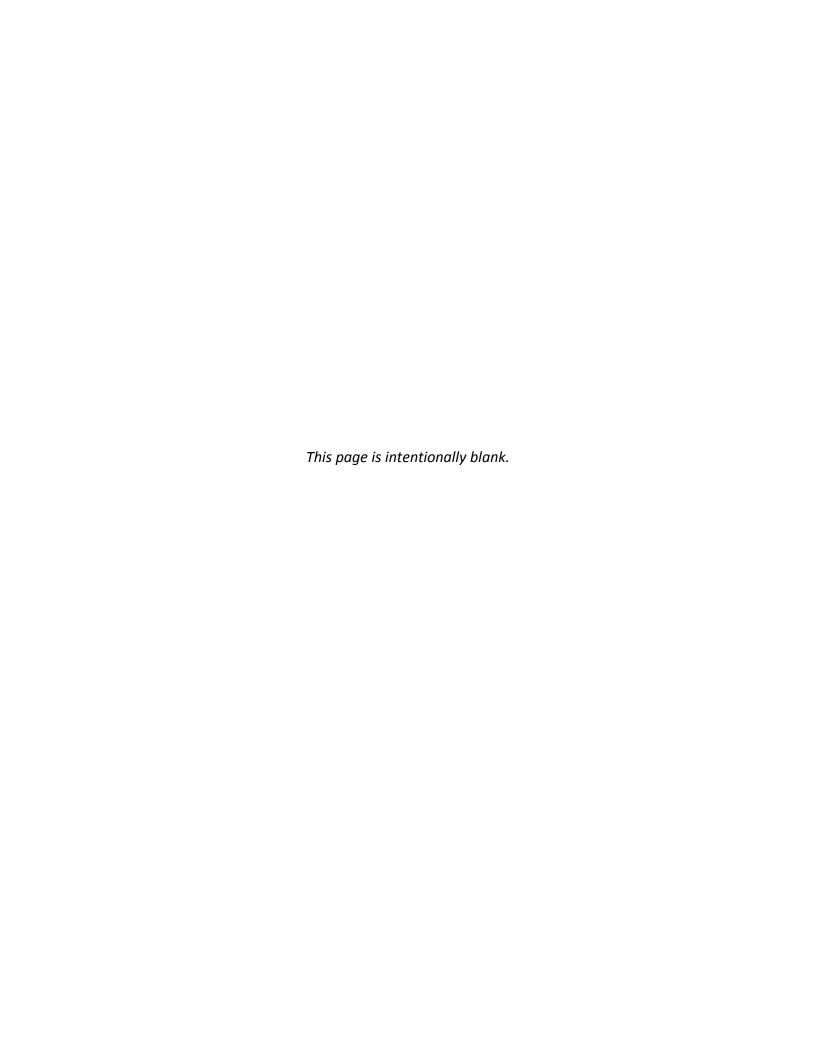
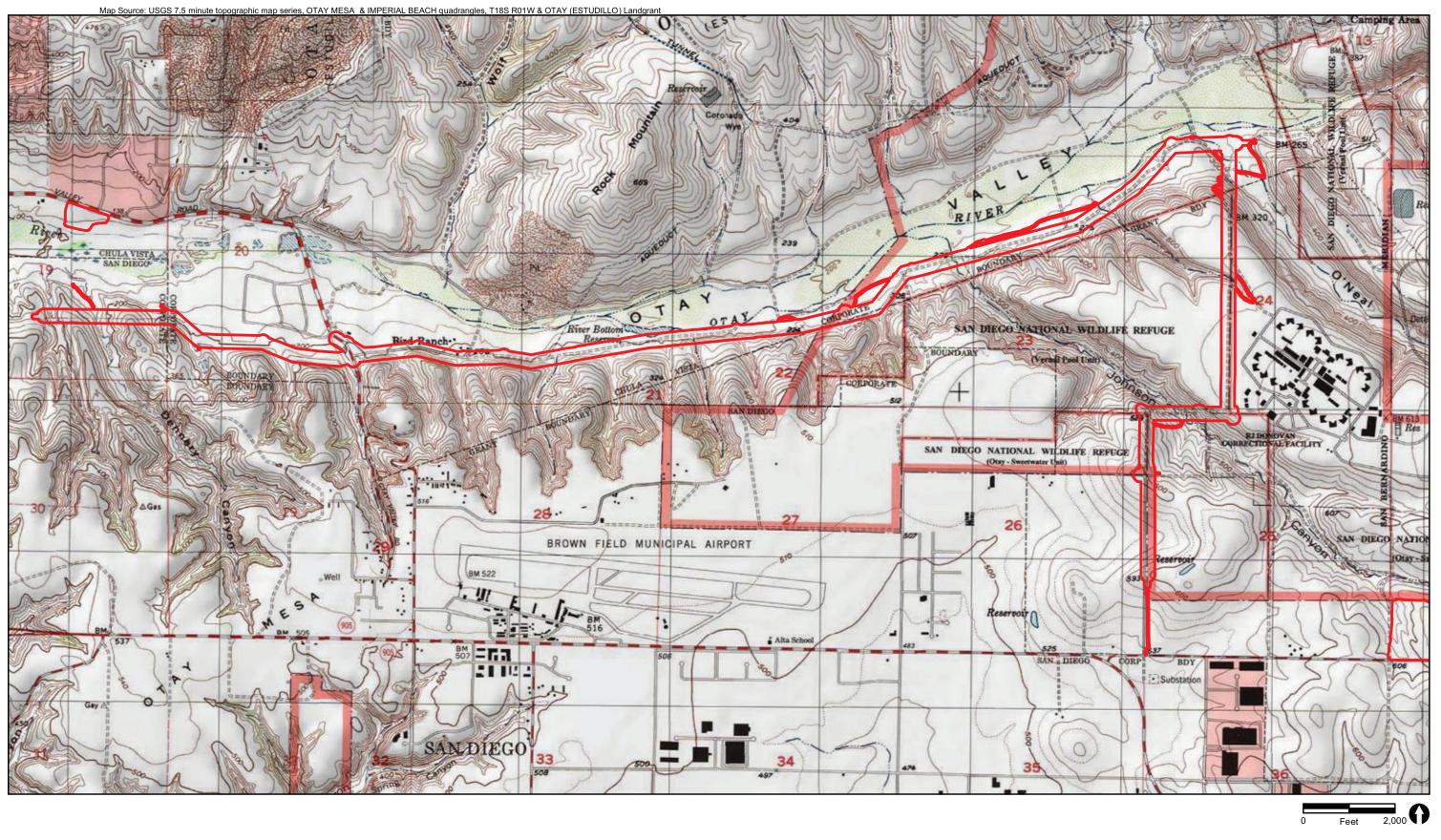






FIGURE 1



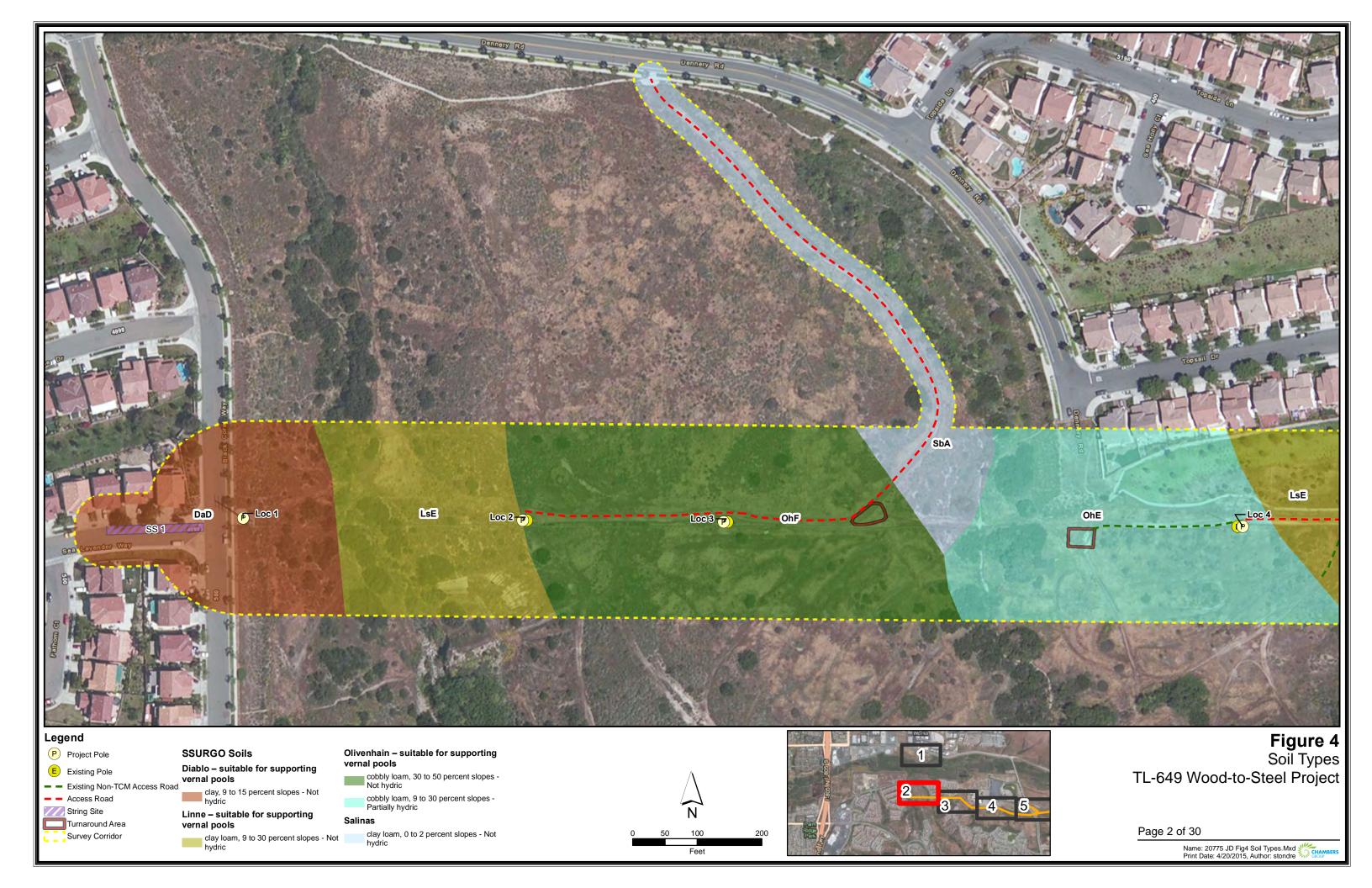
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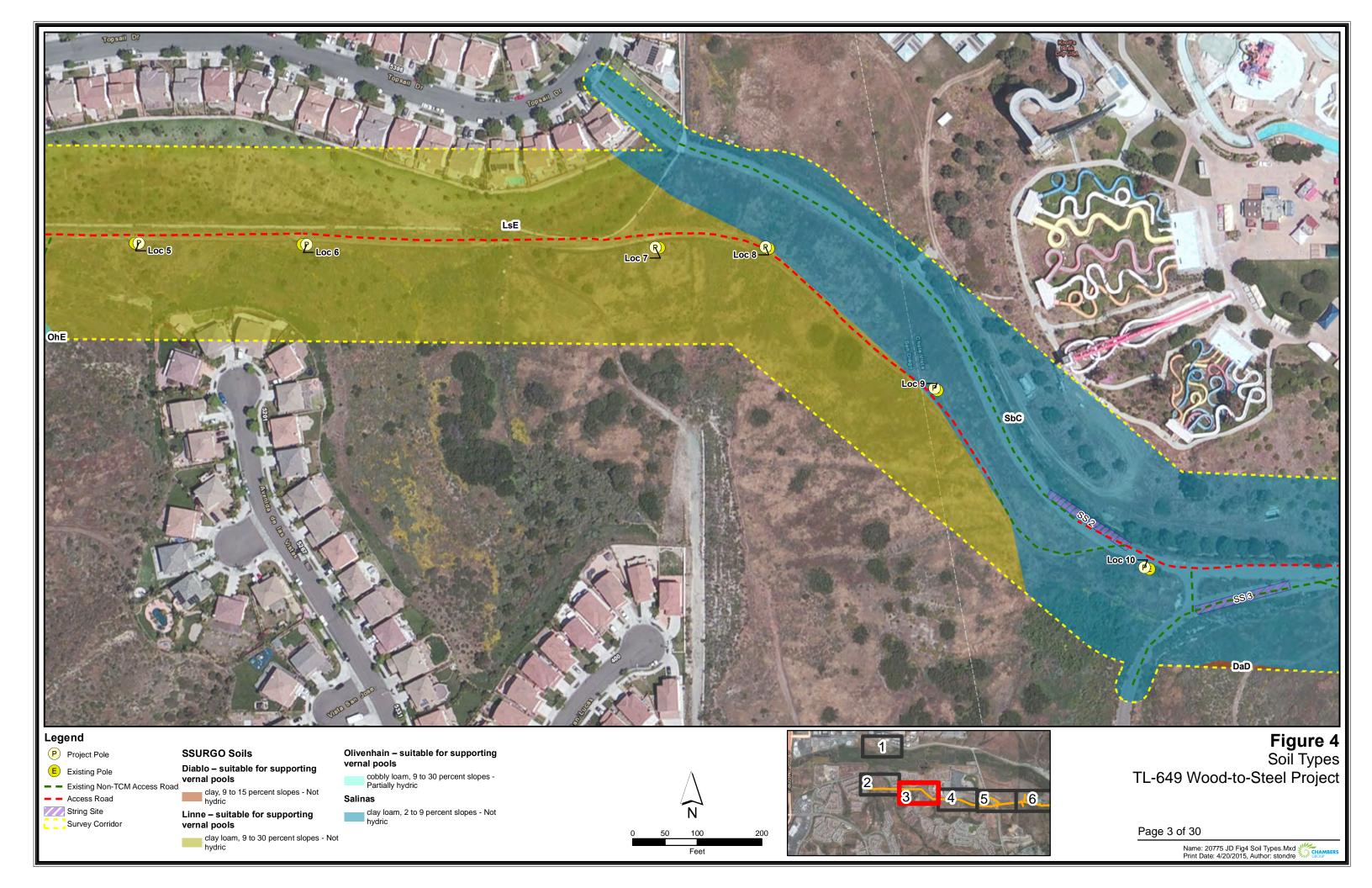


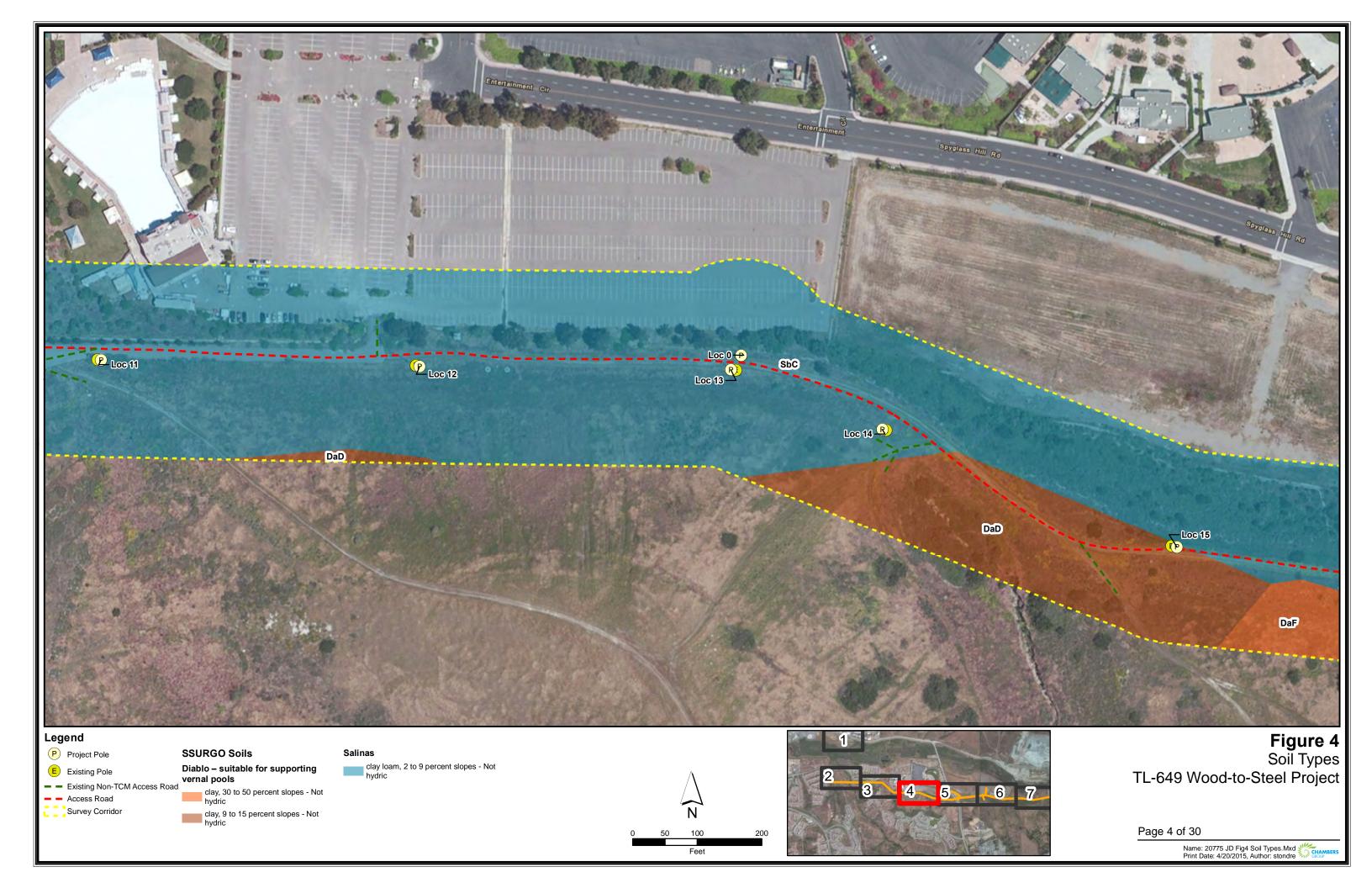
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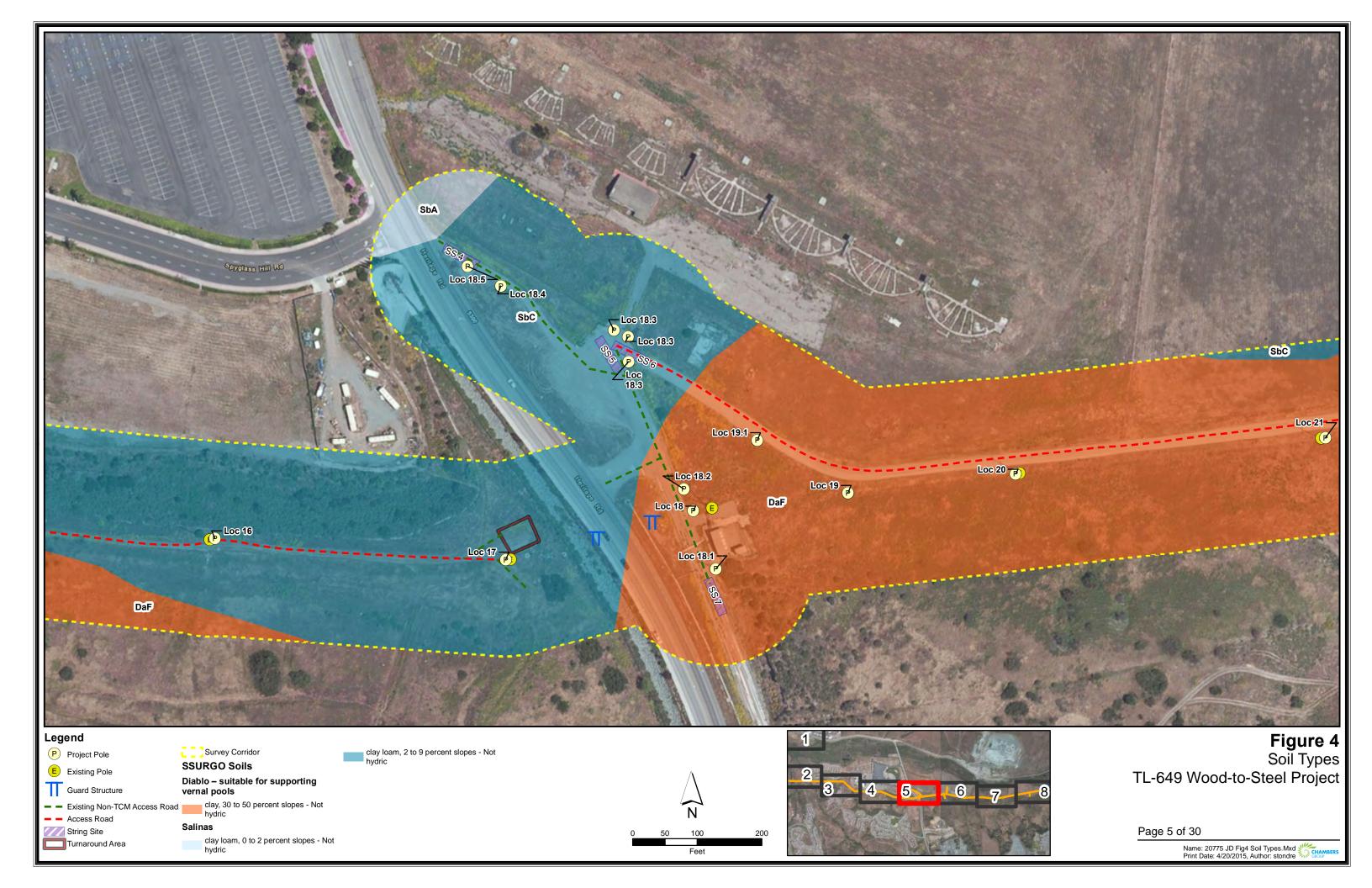


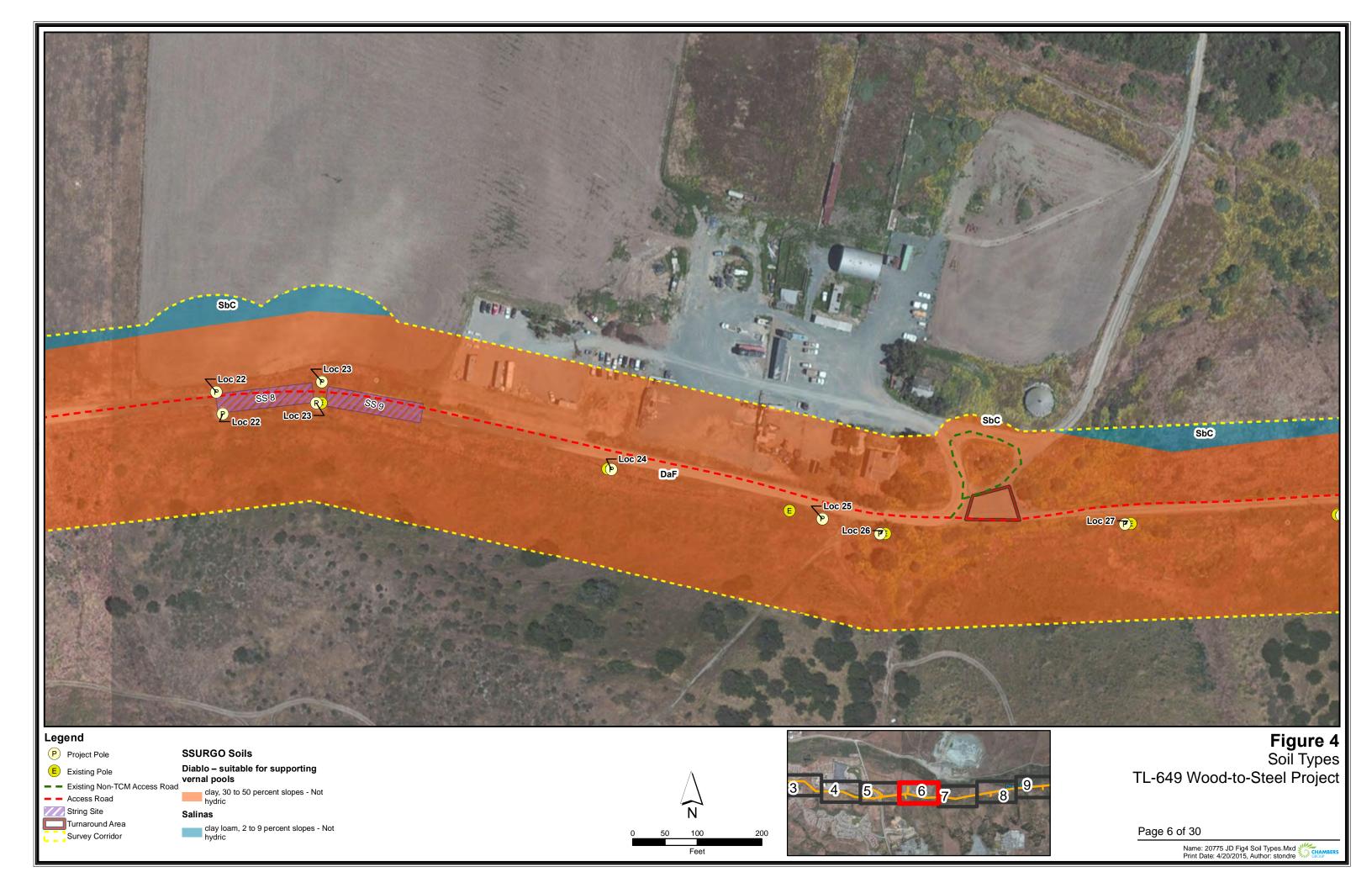
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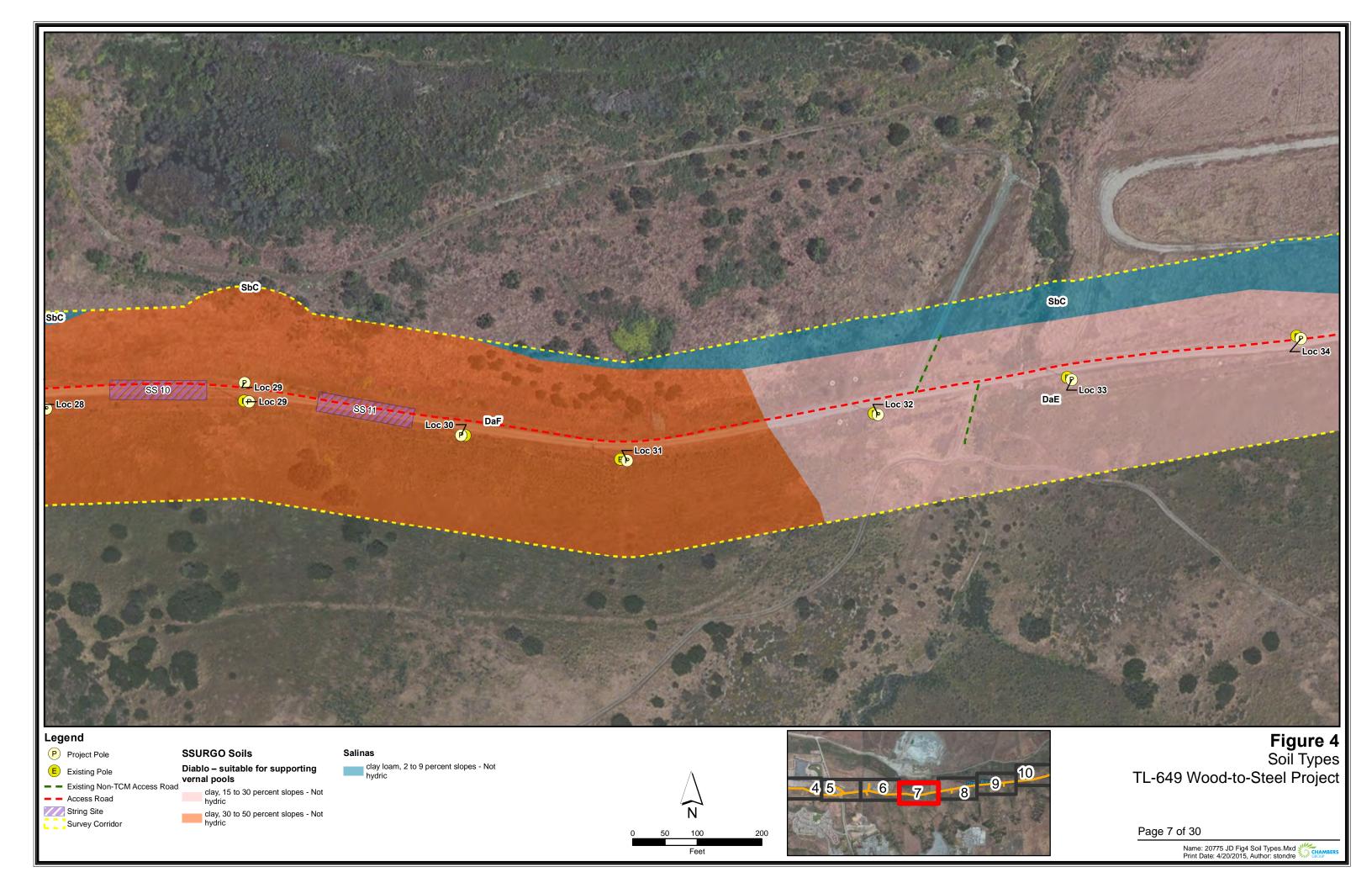


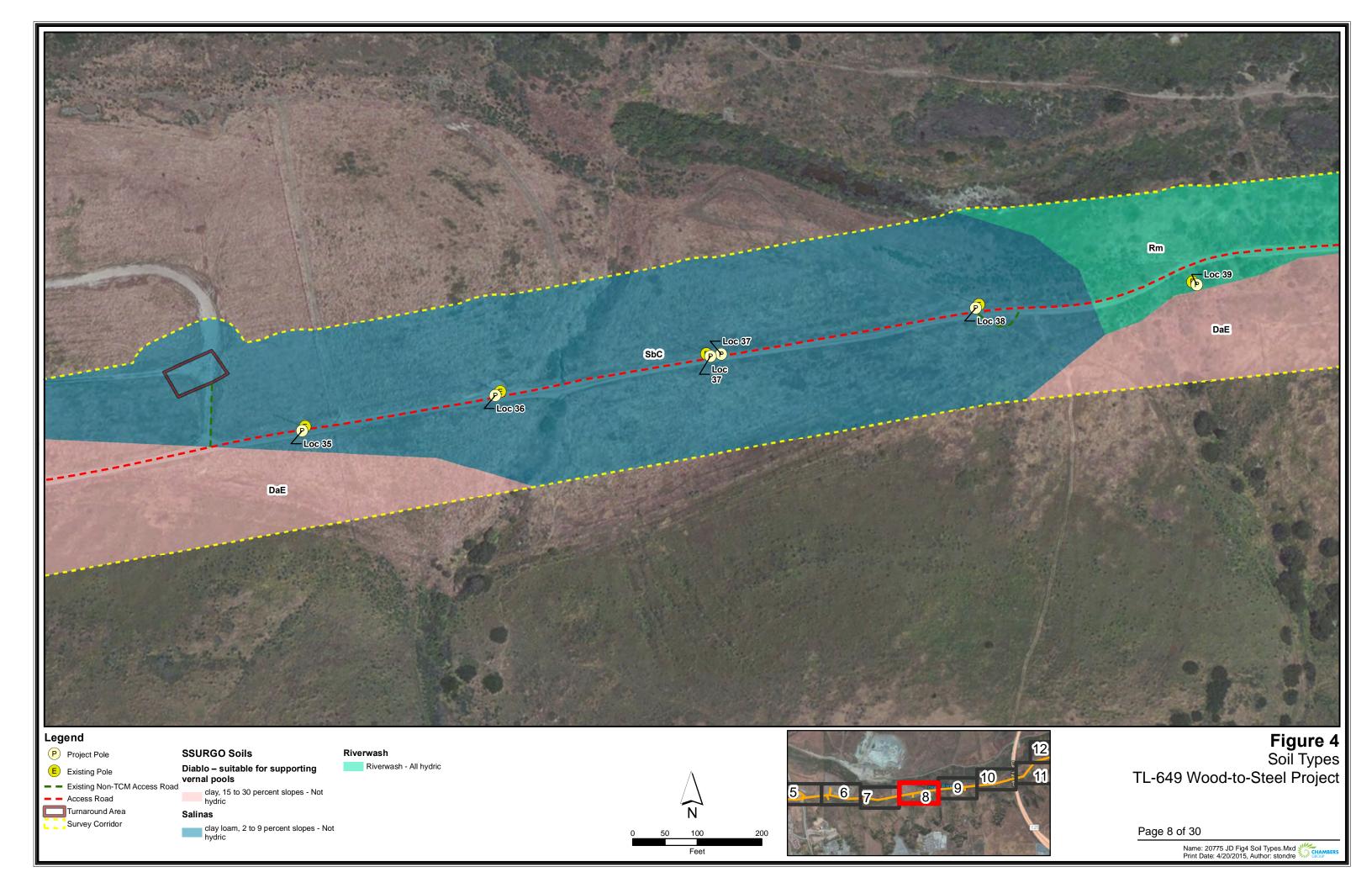


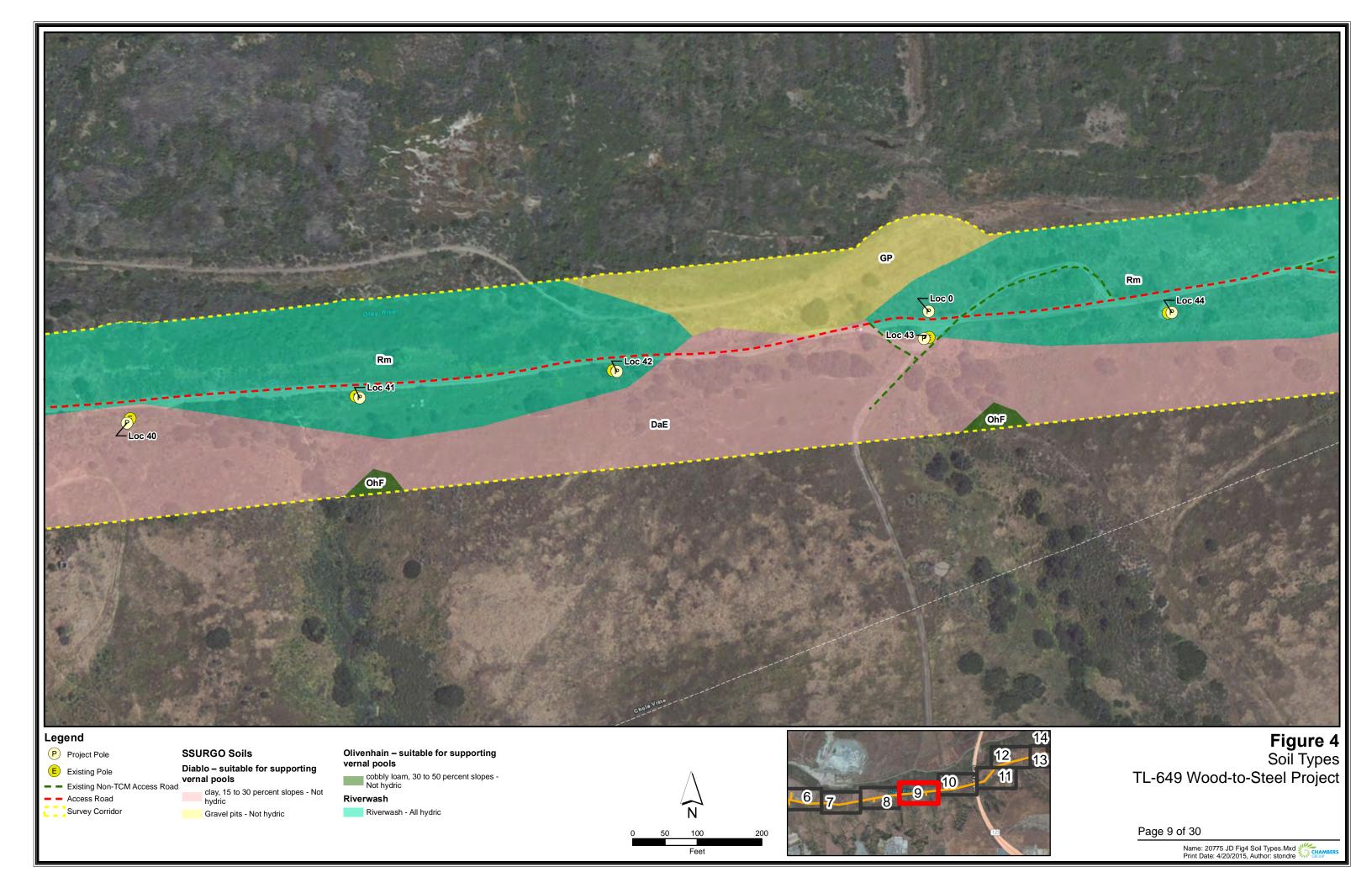


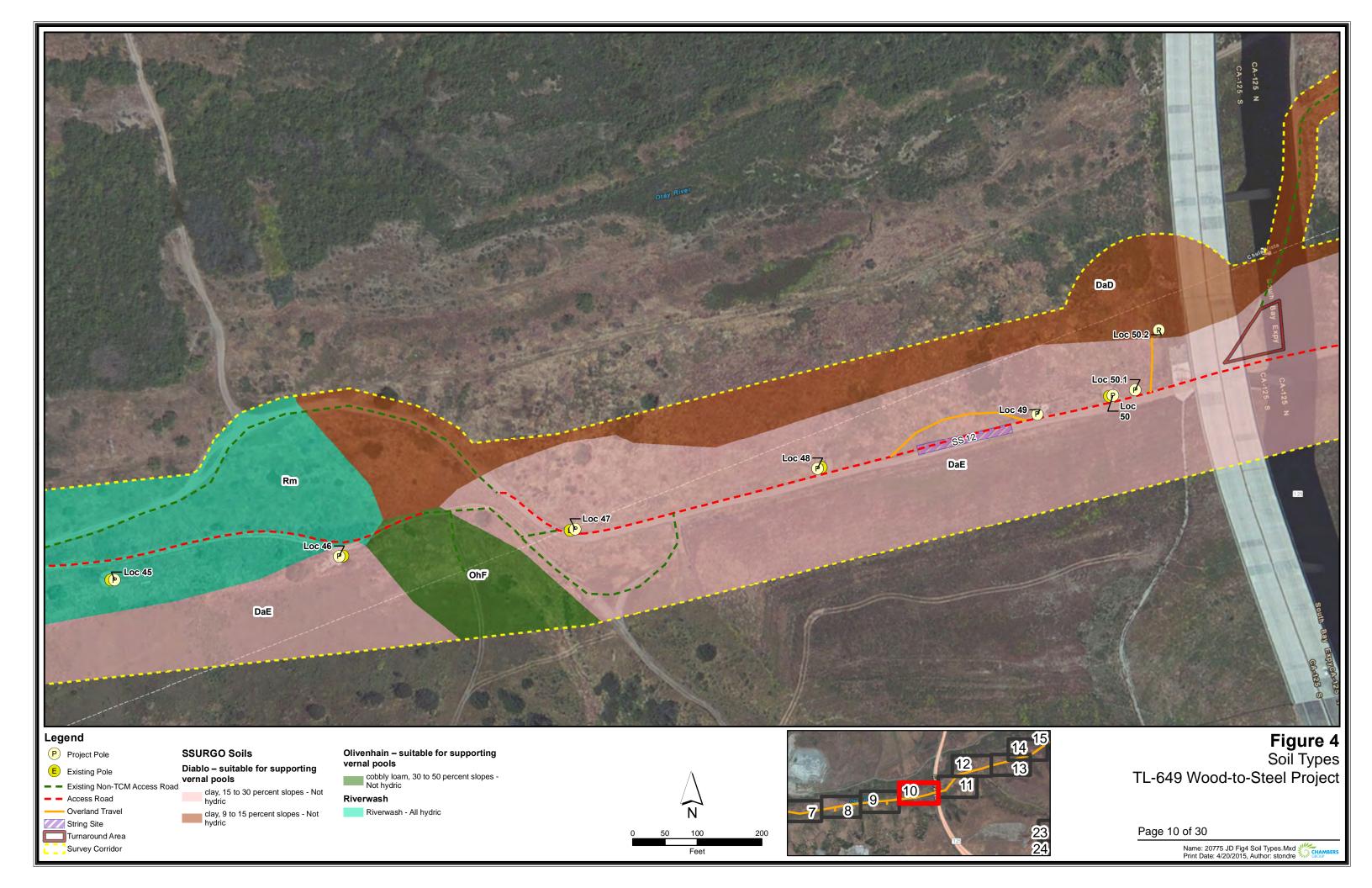


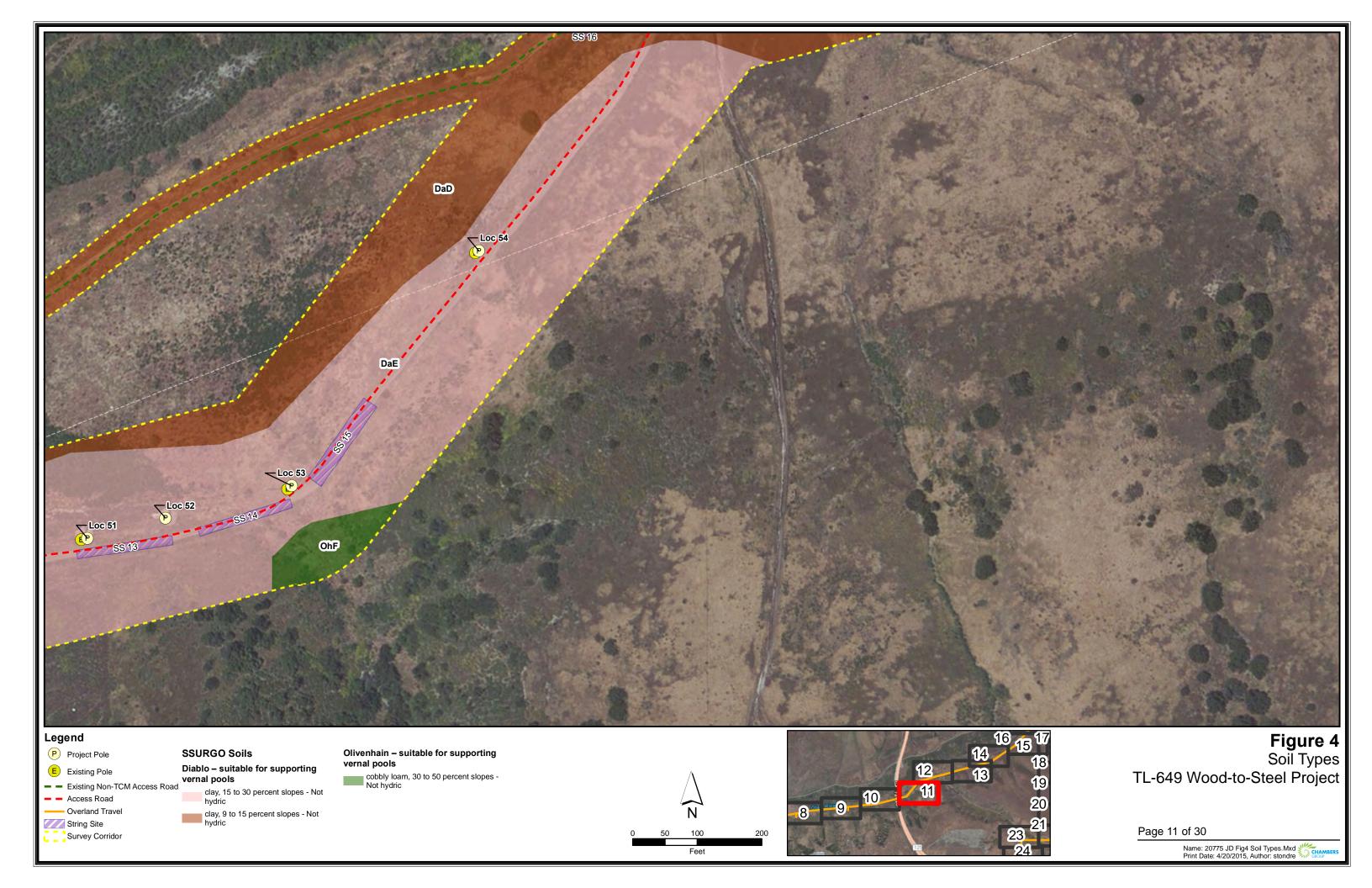


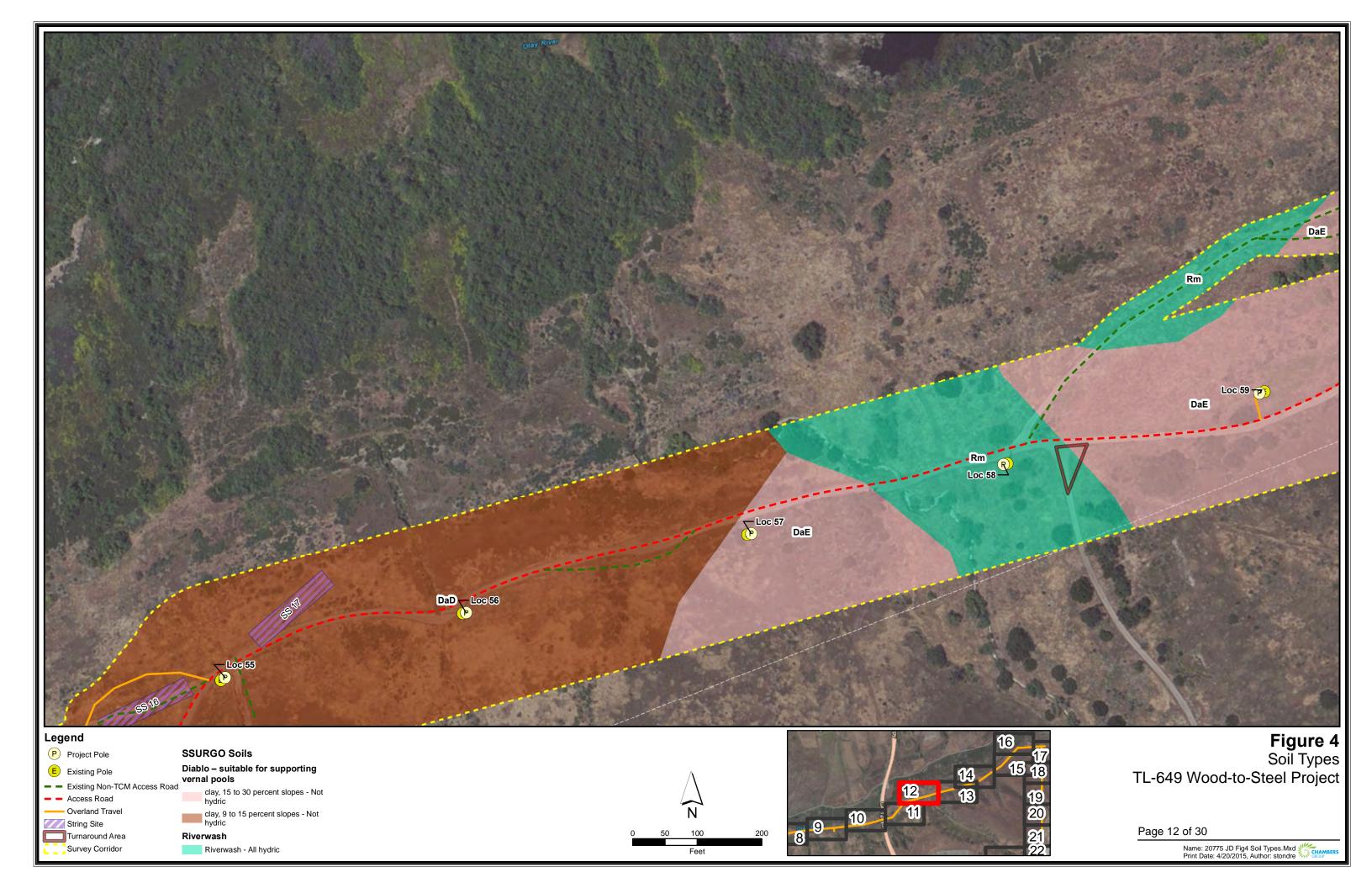


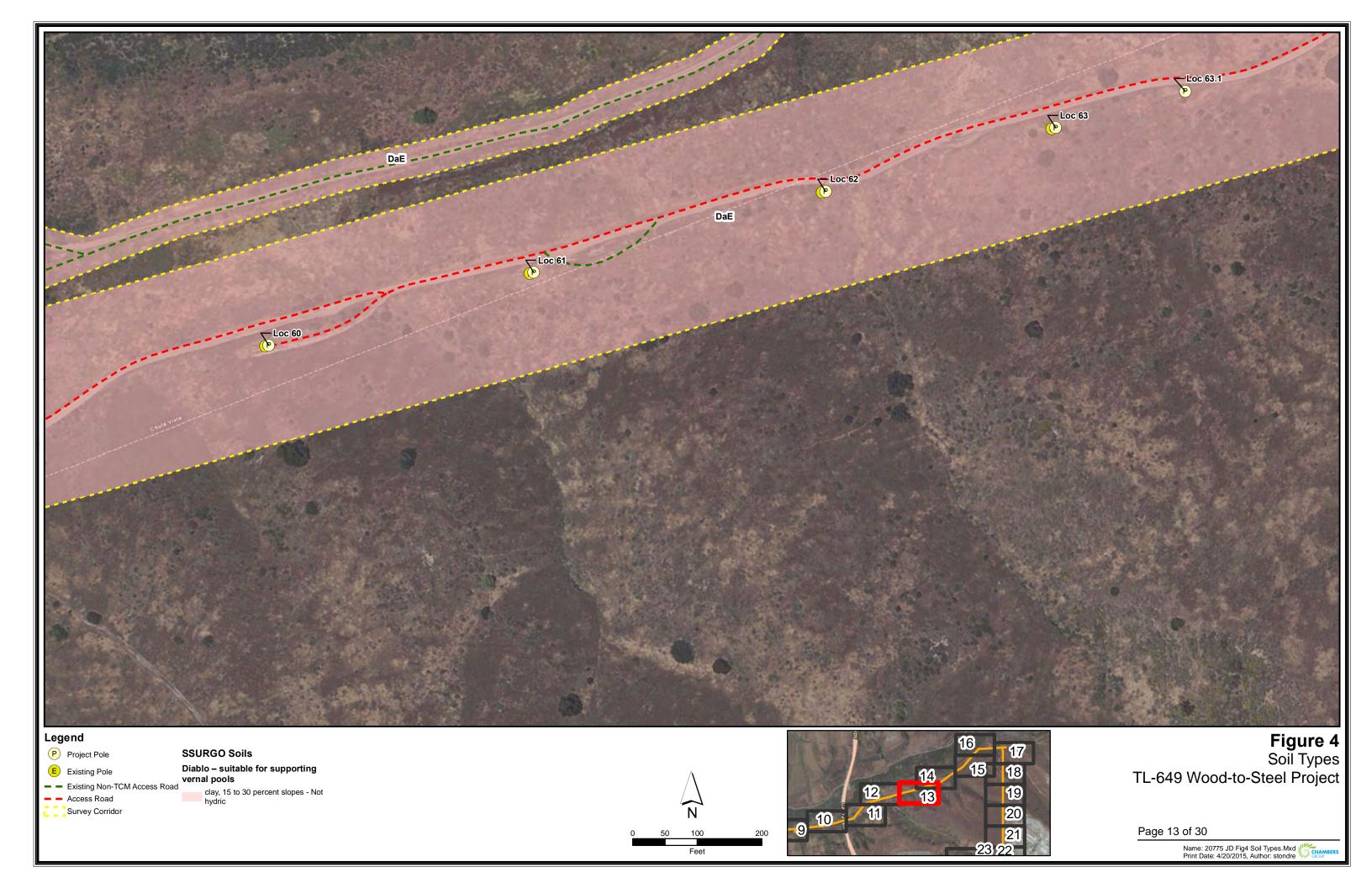


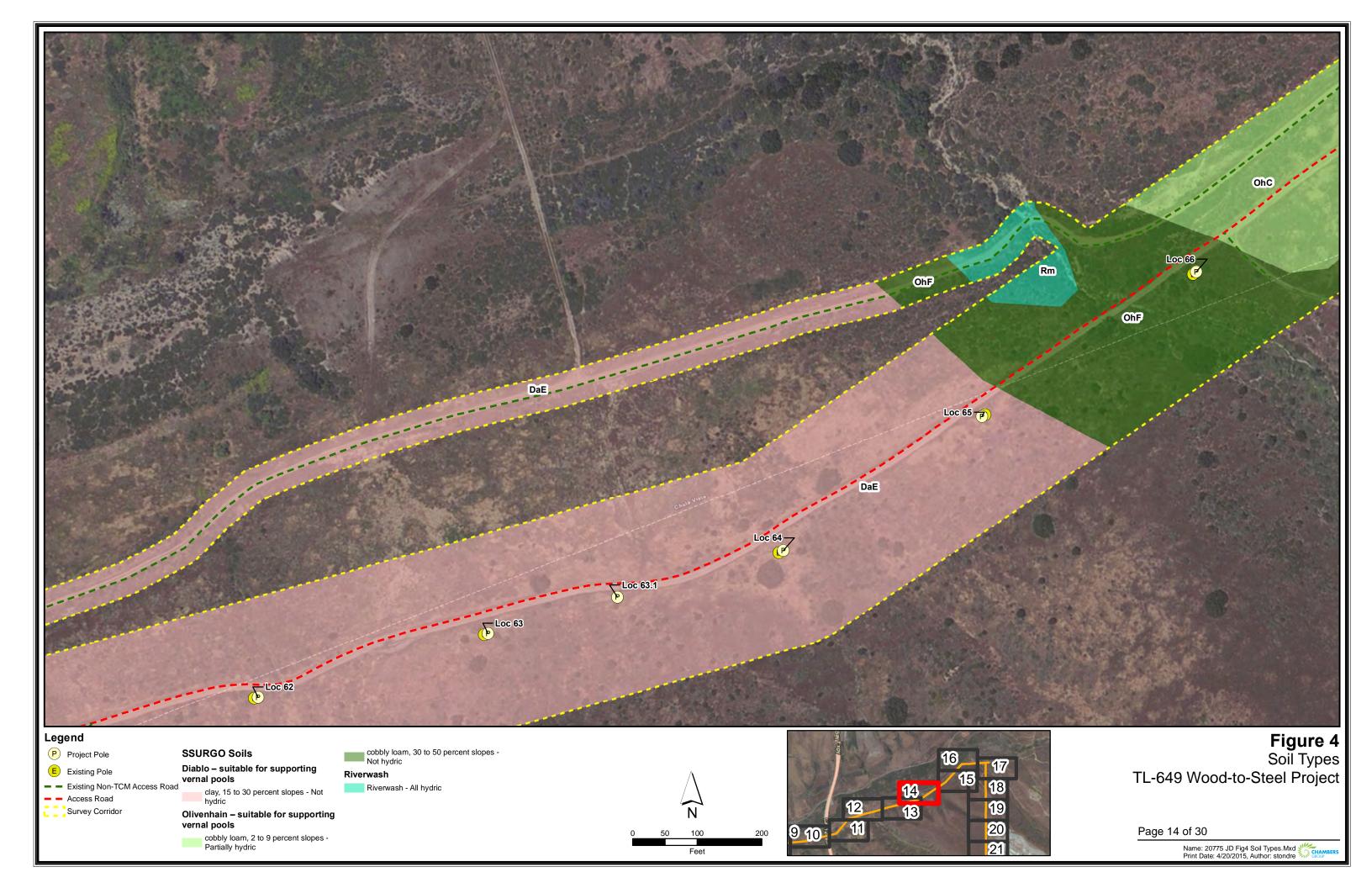


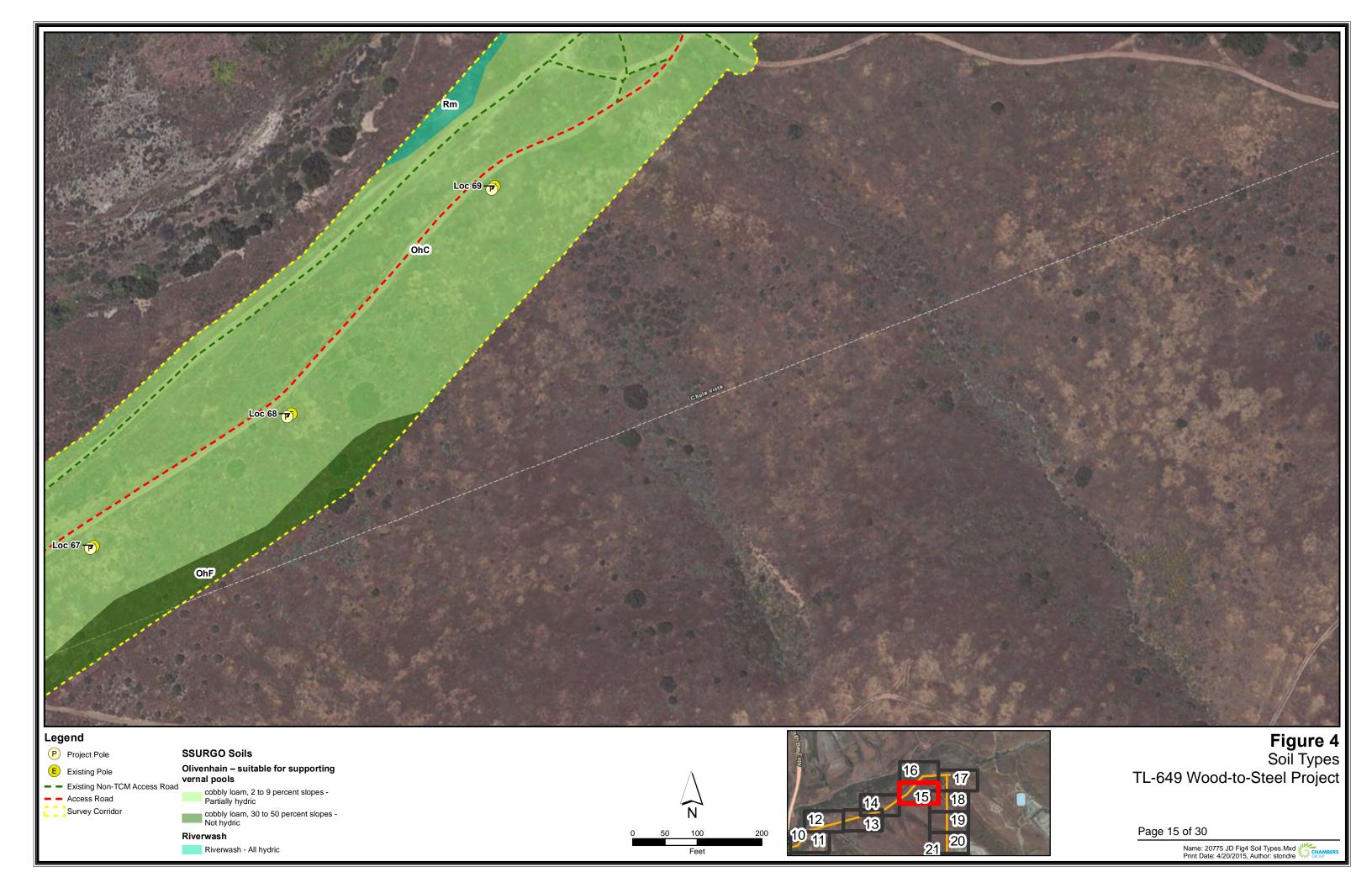


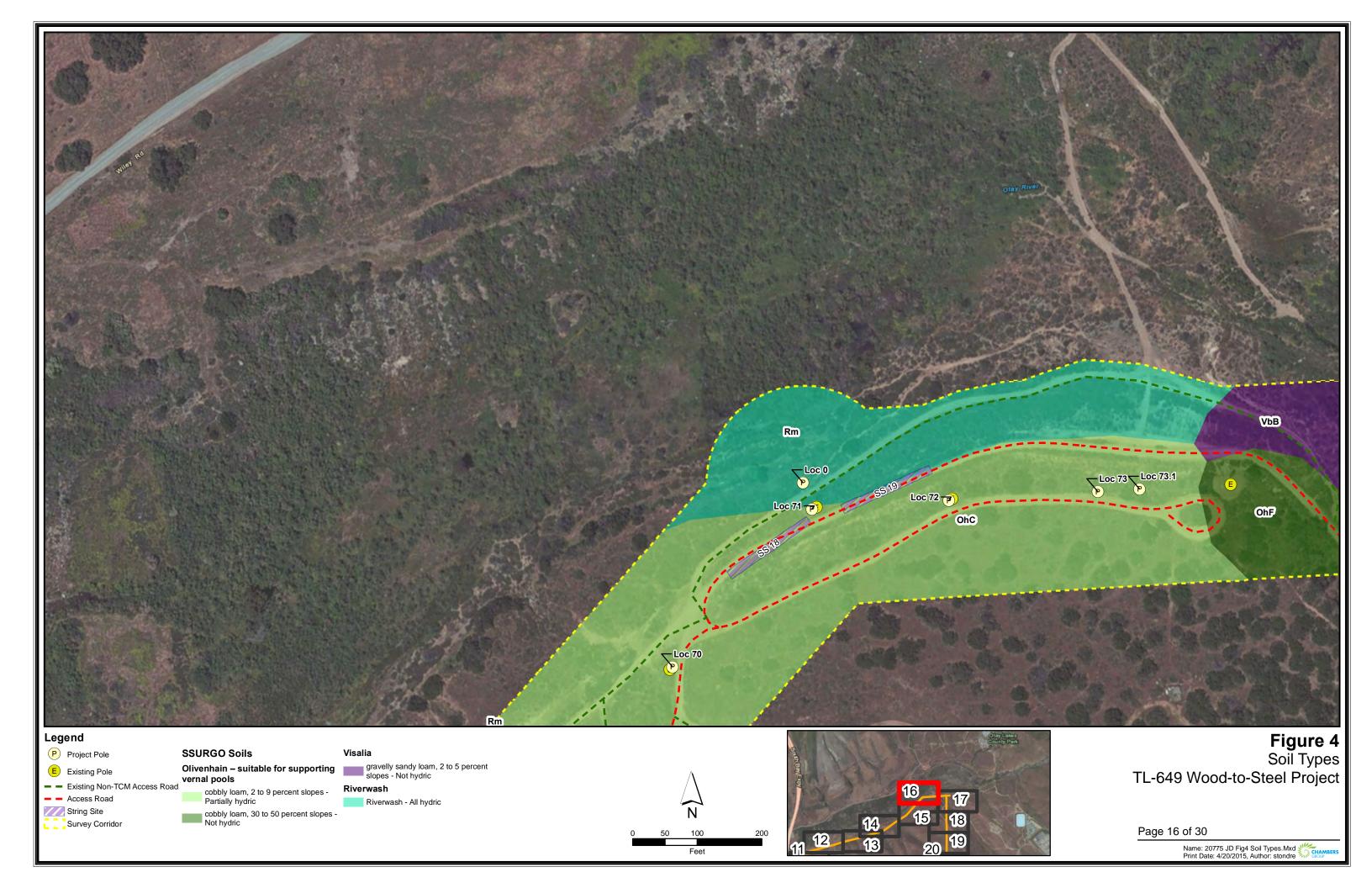


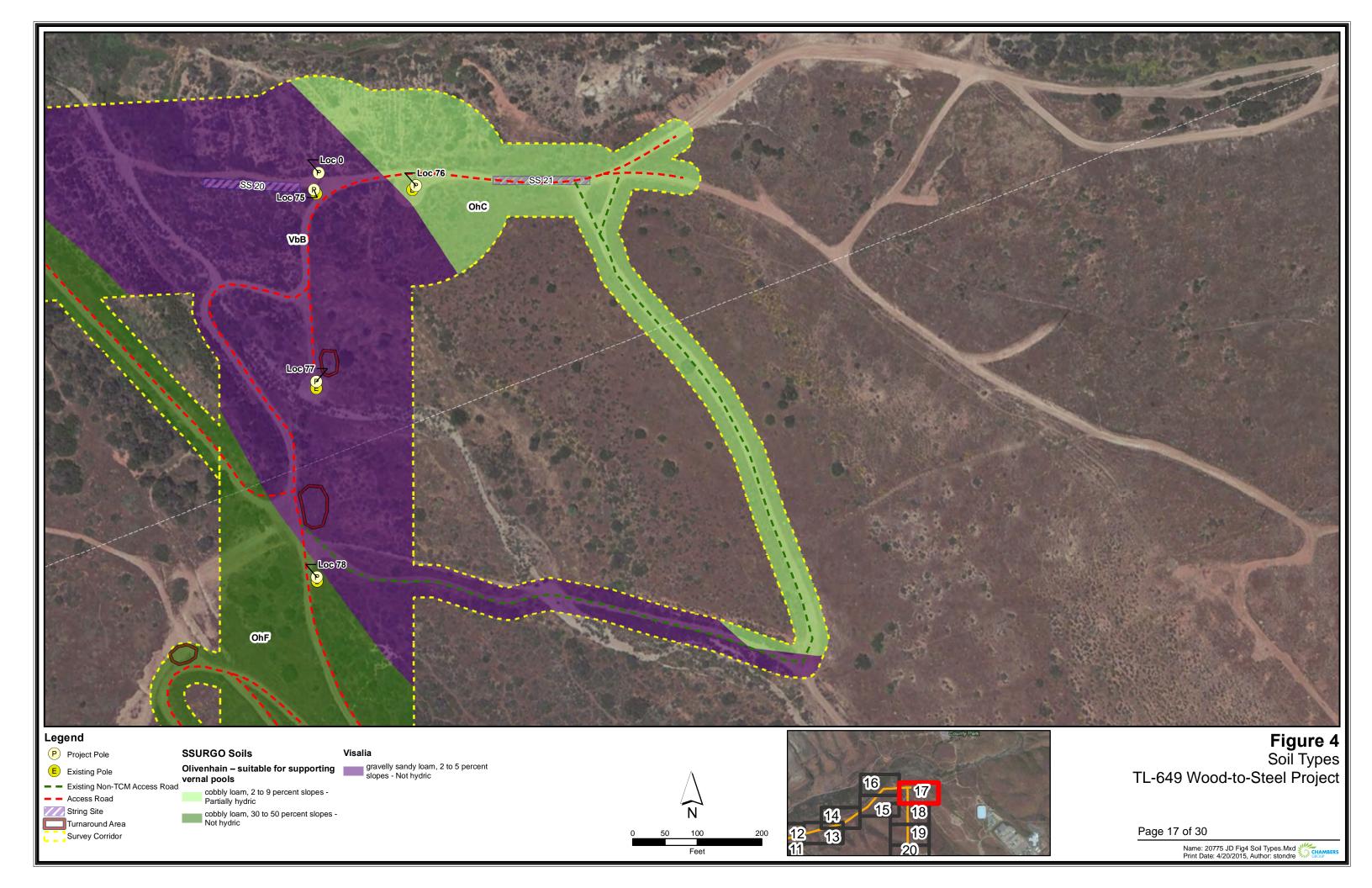




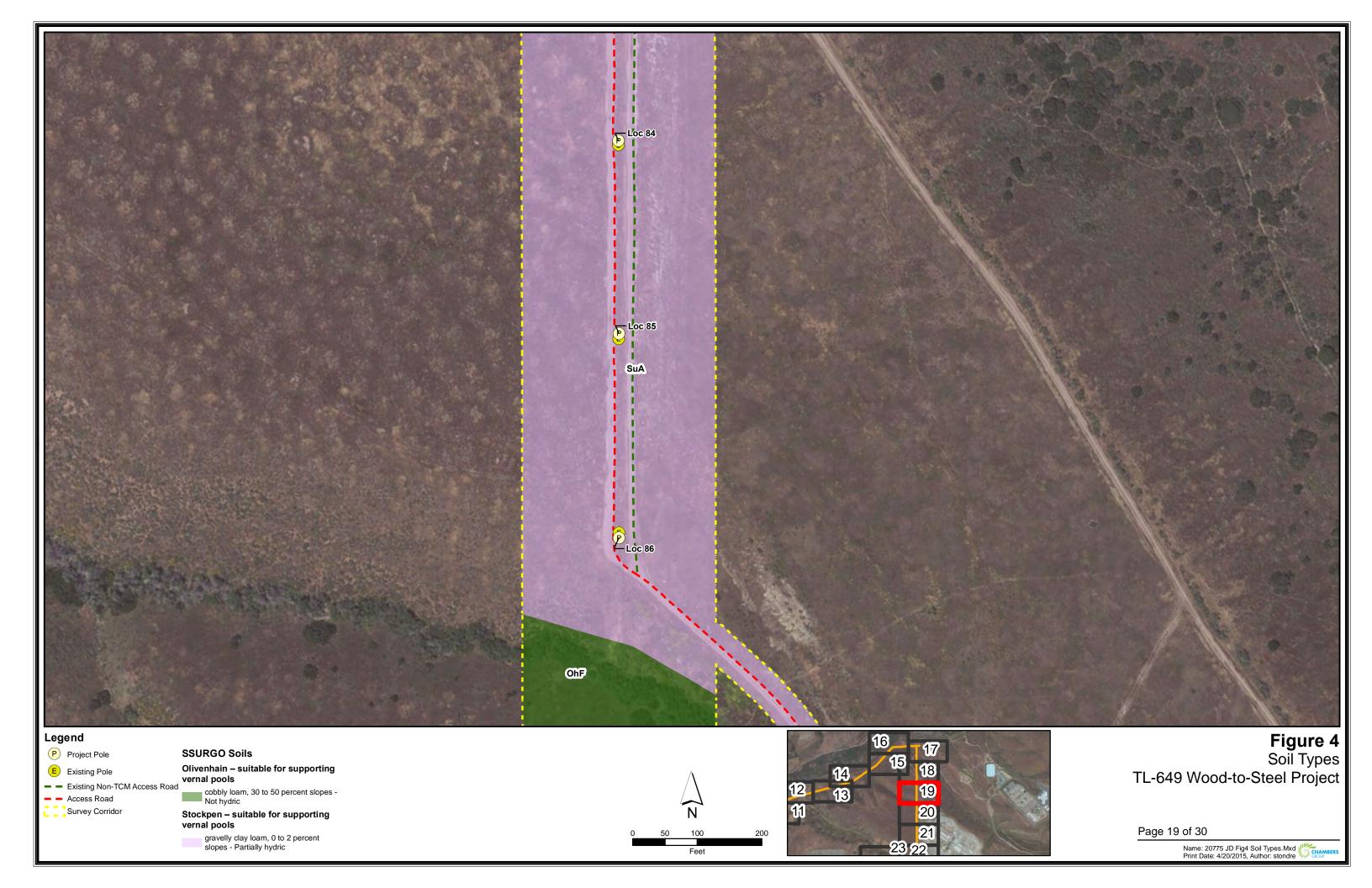


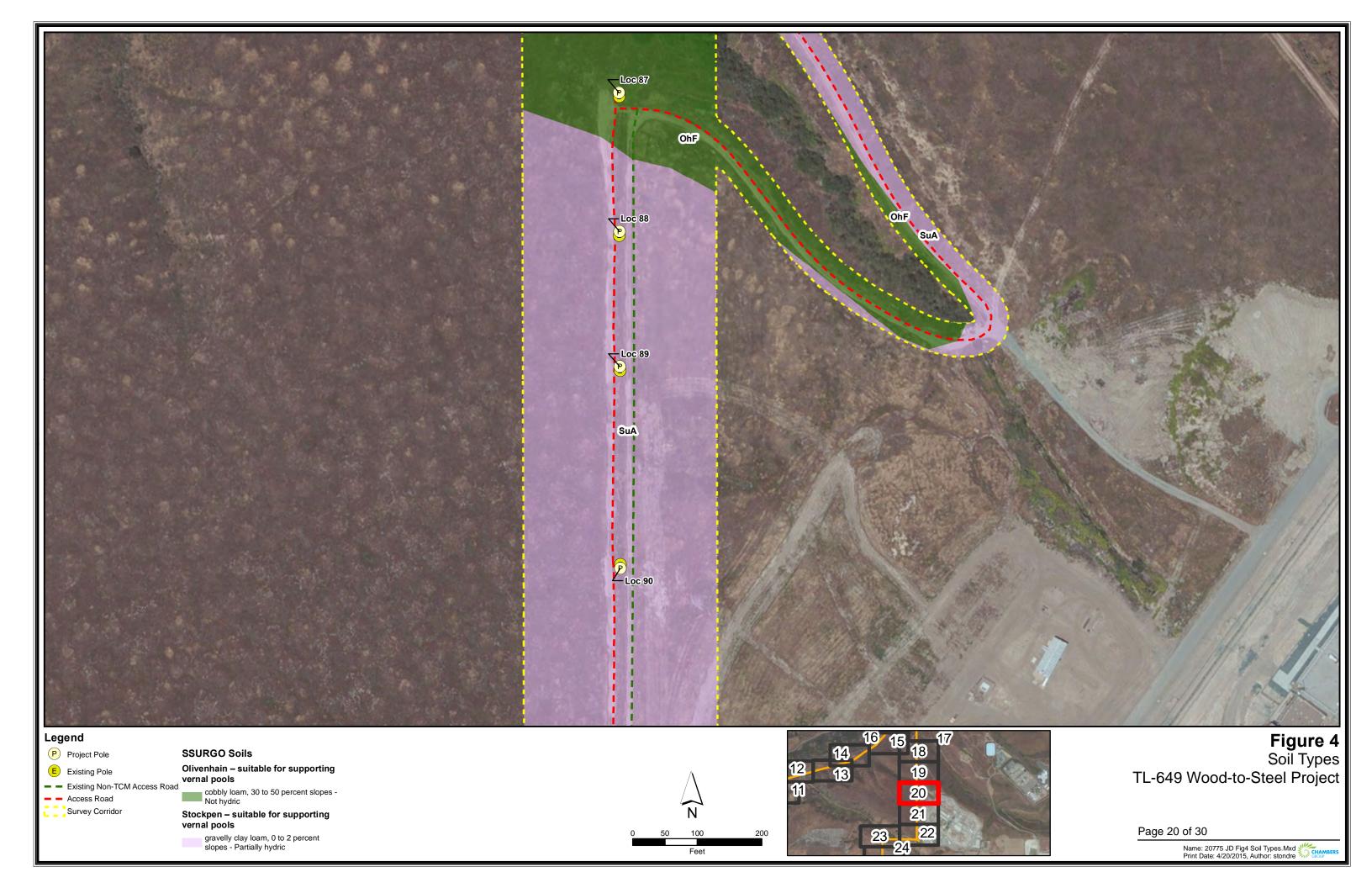




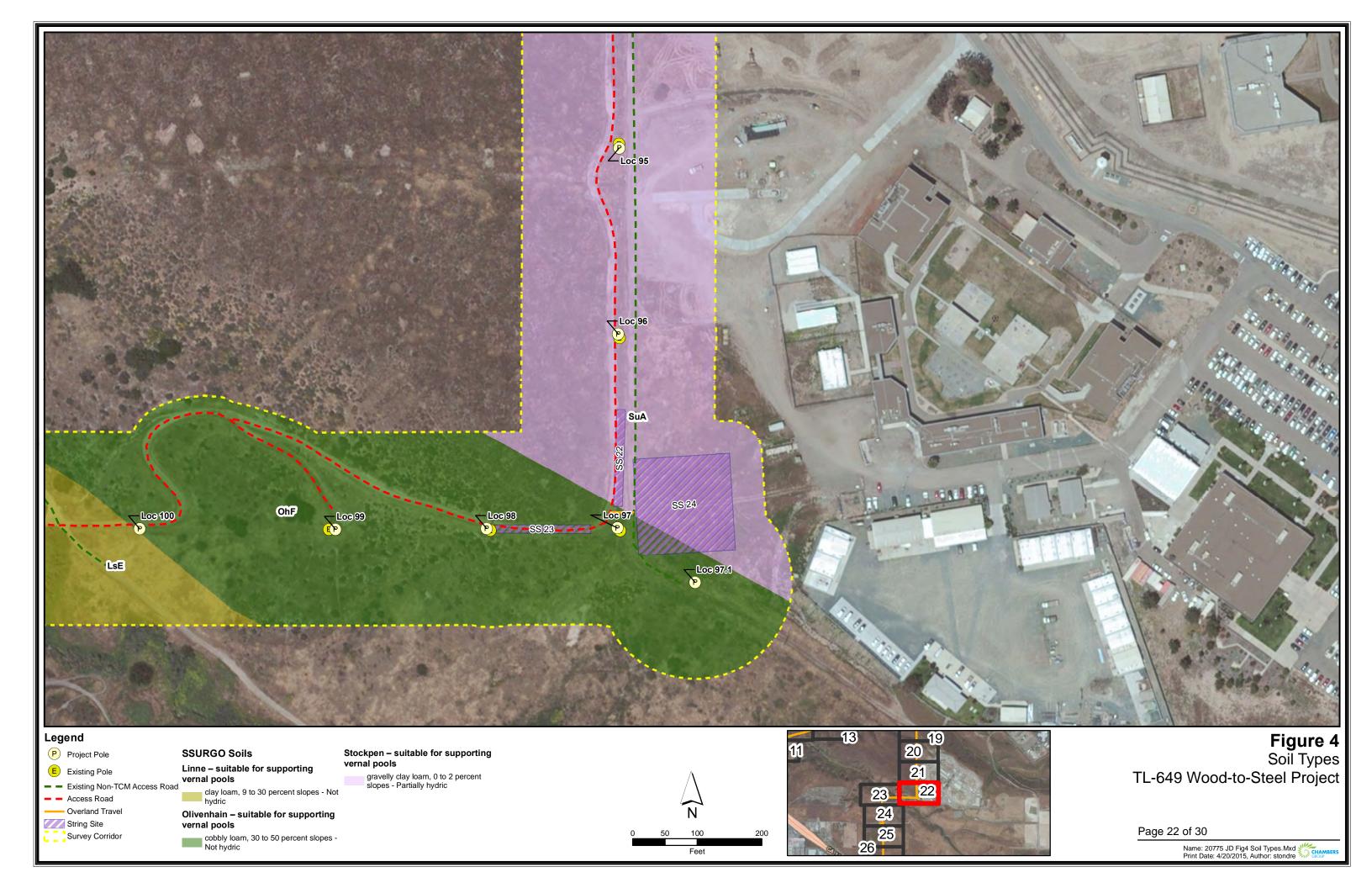


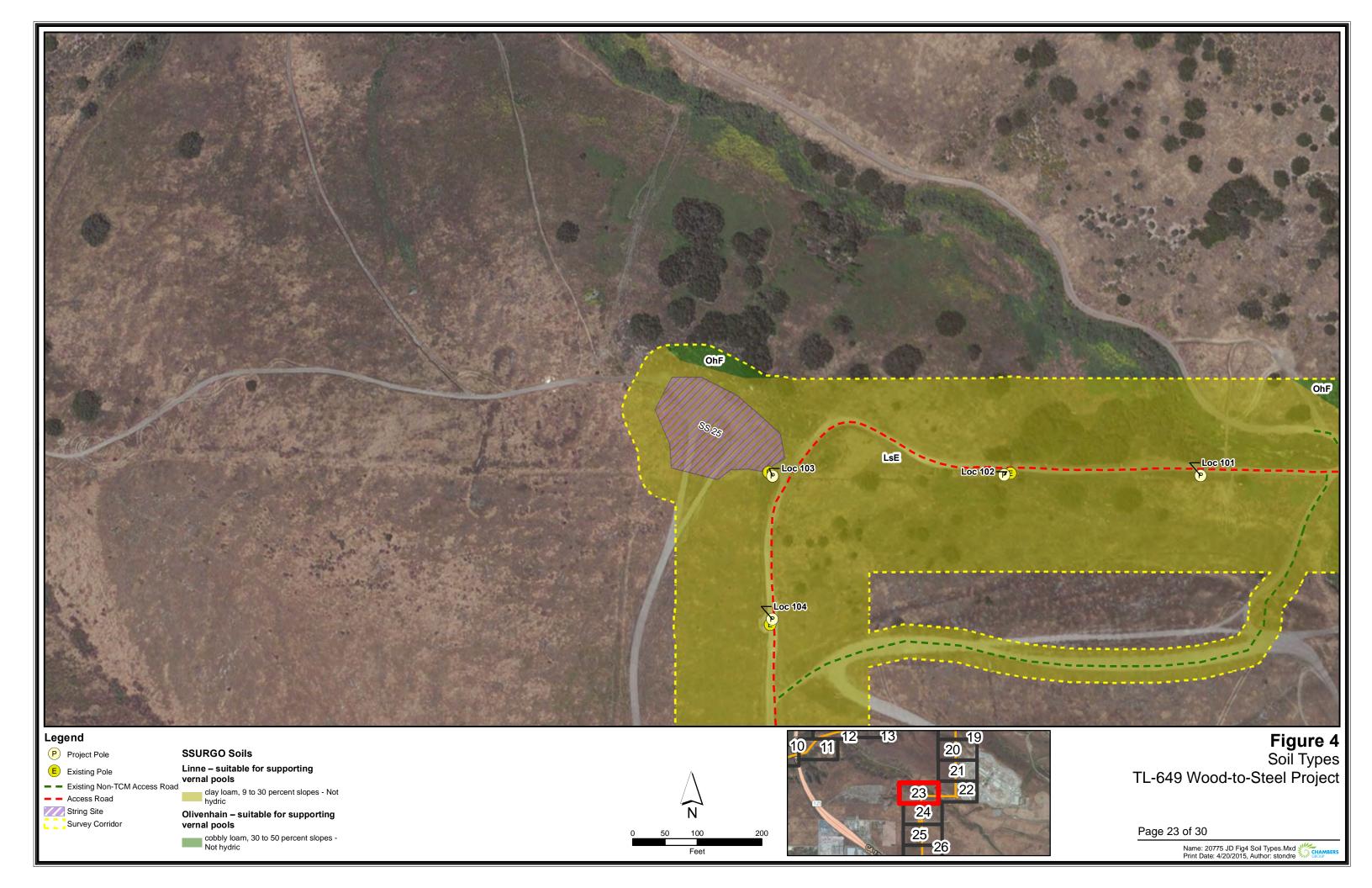


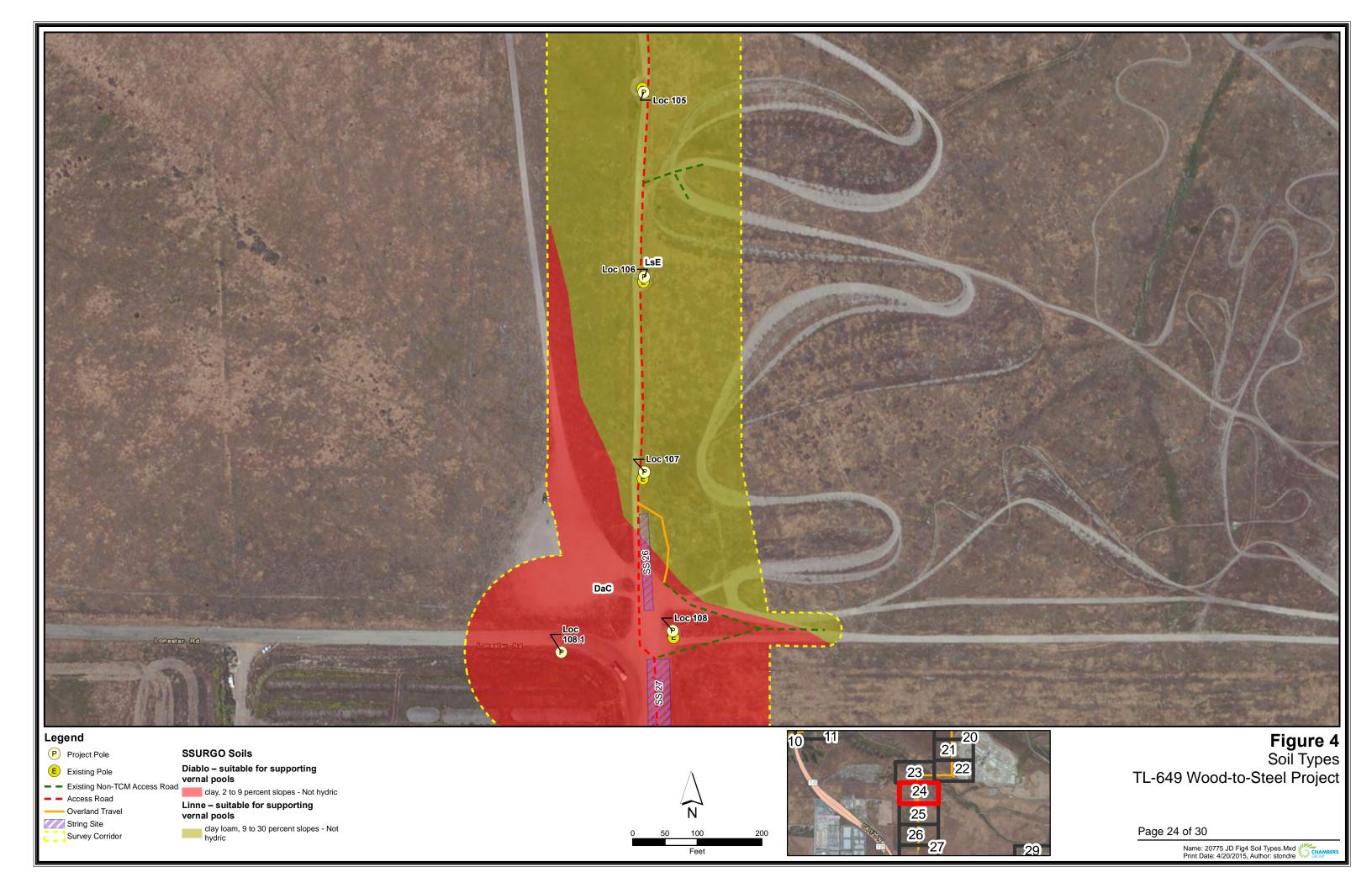


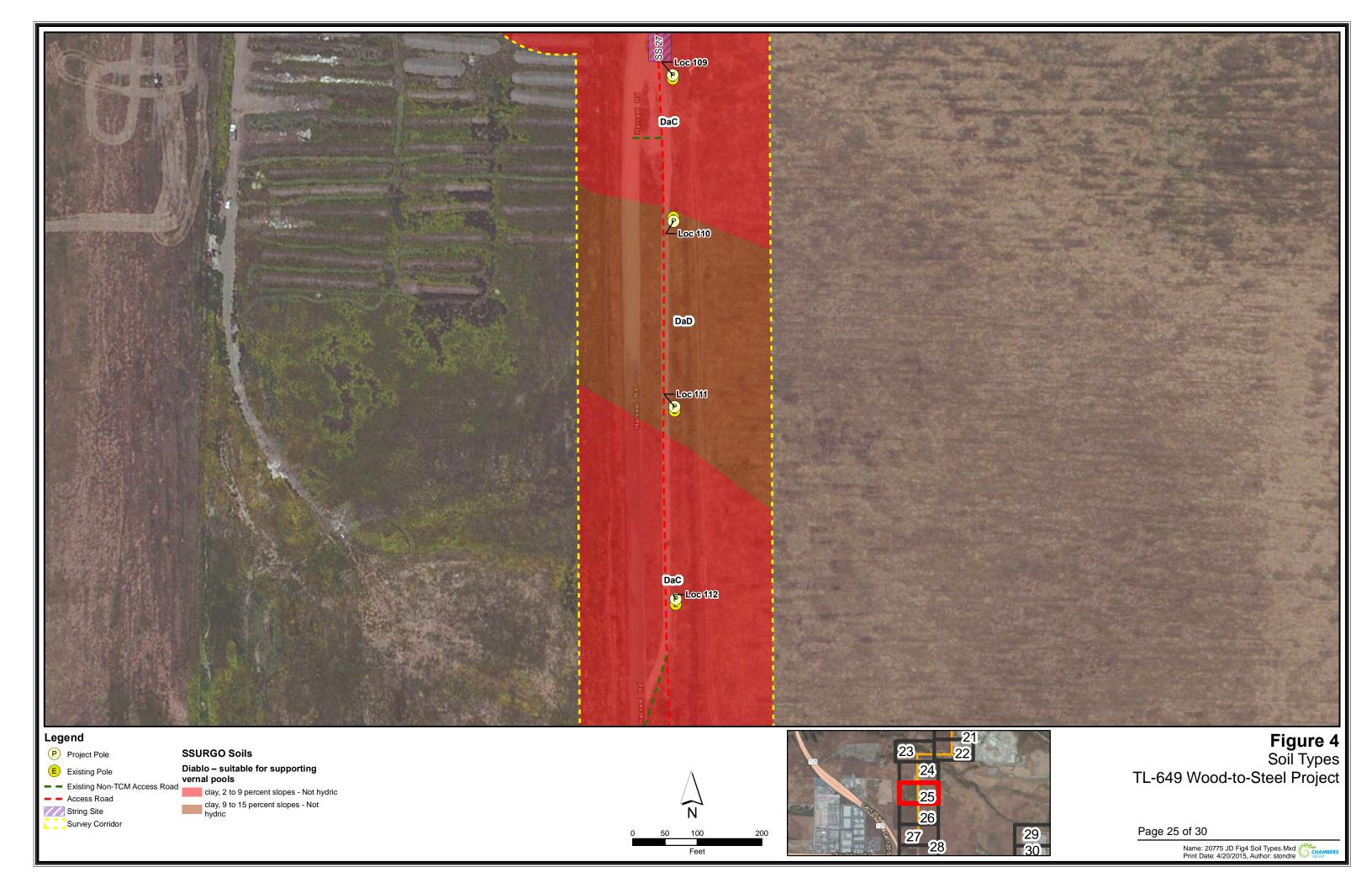


















- - Access Road

Survey Corridor

SSURGO Soils

Diablo – suitable for supporting vernal pools

clay, 2 to 9 percent slopes - Not hydric

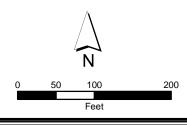
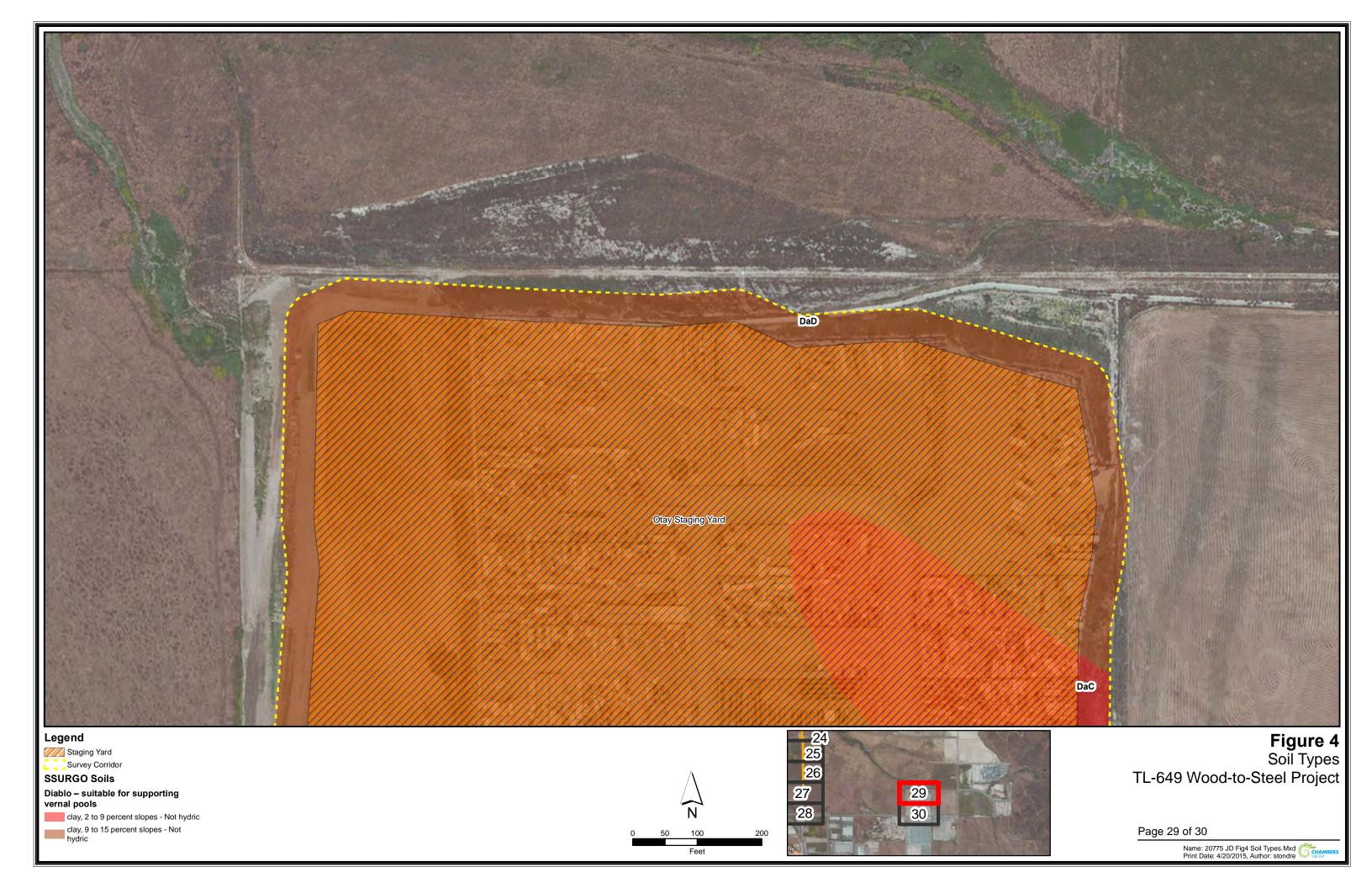




Figure 4 Soil Types TL-649 Wood-to-Steel Project

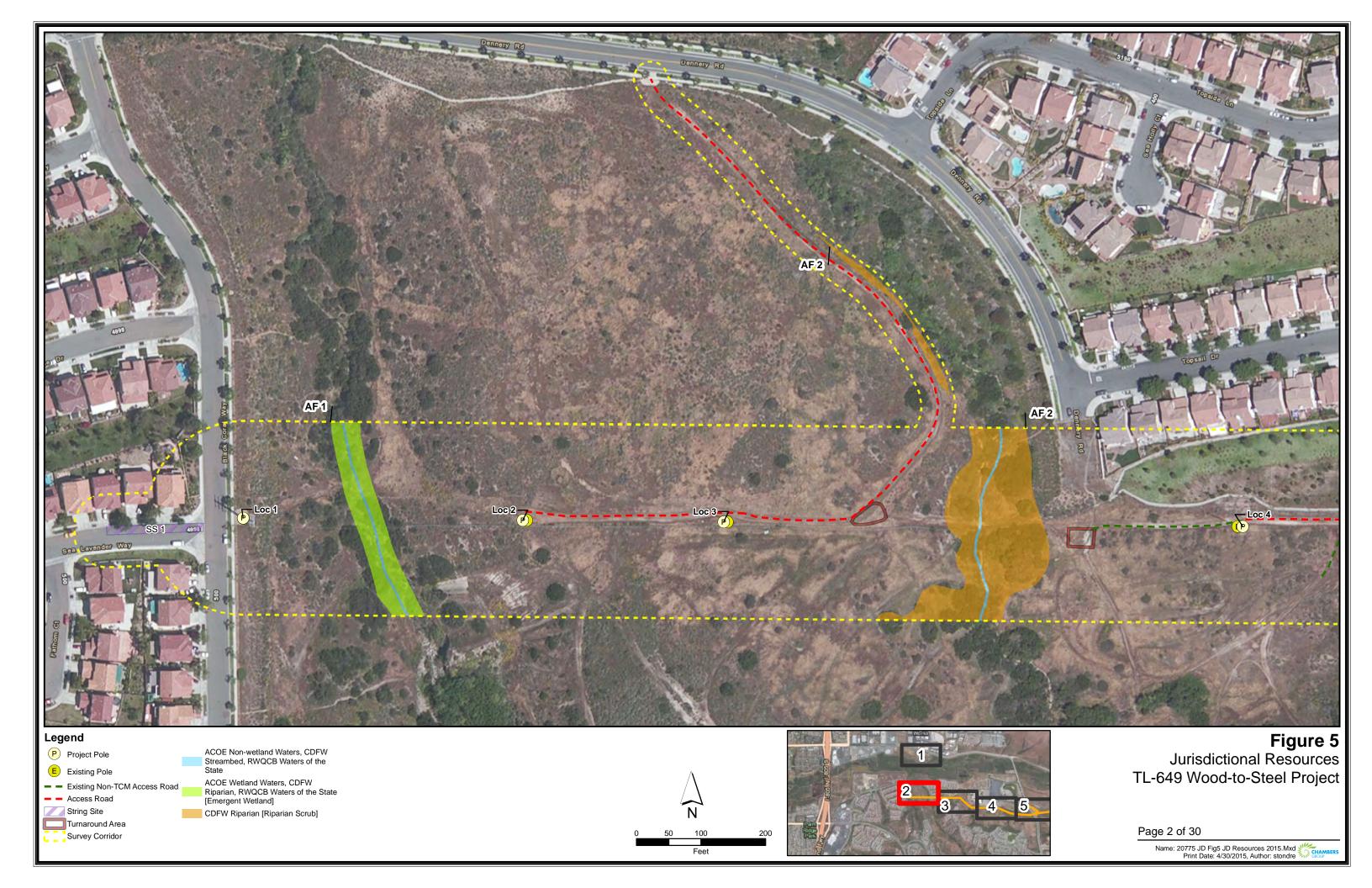
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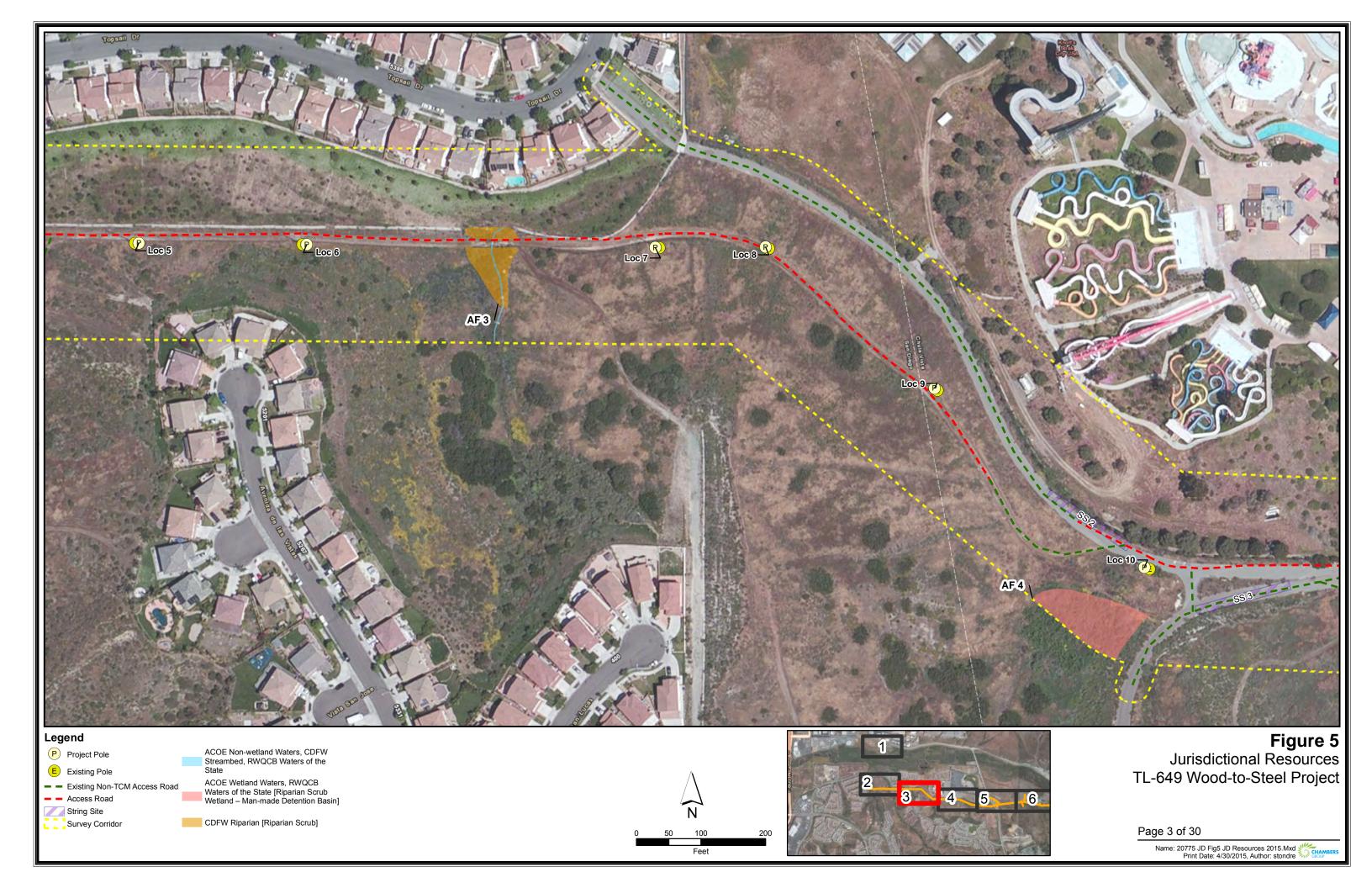
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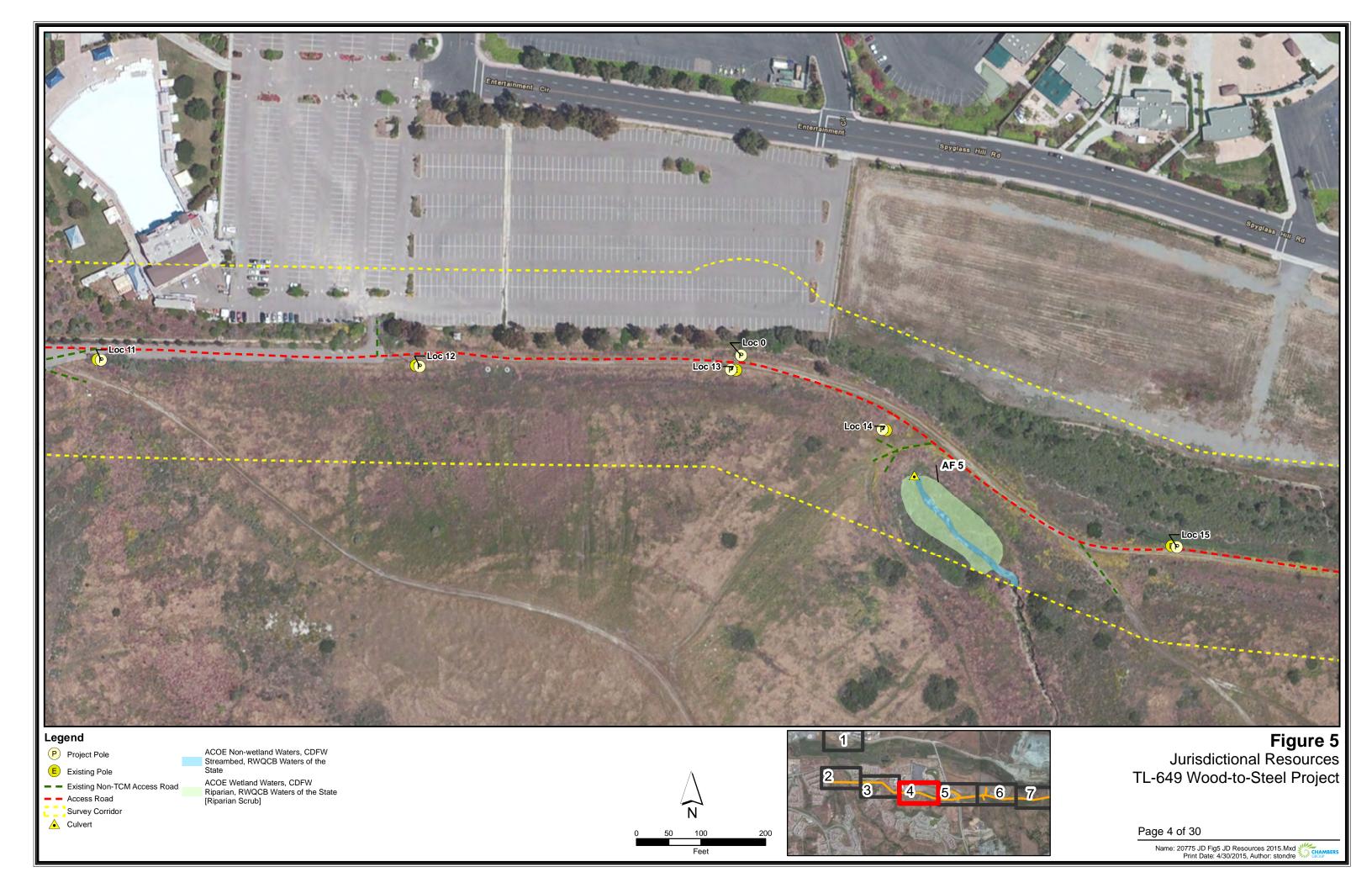




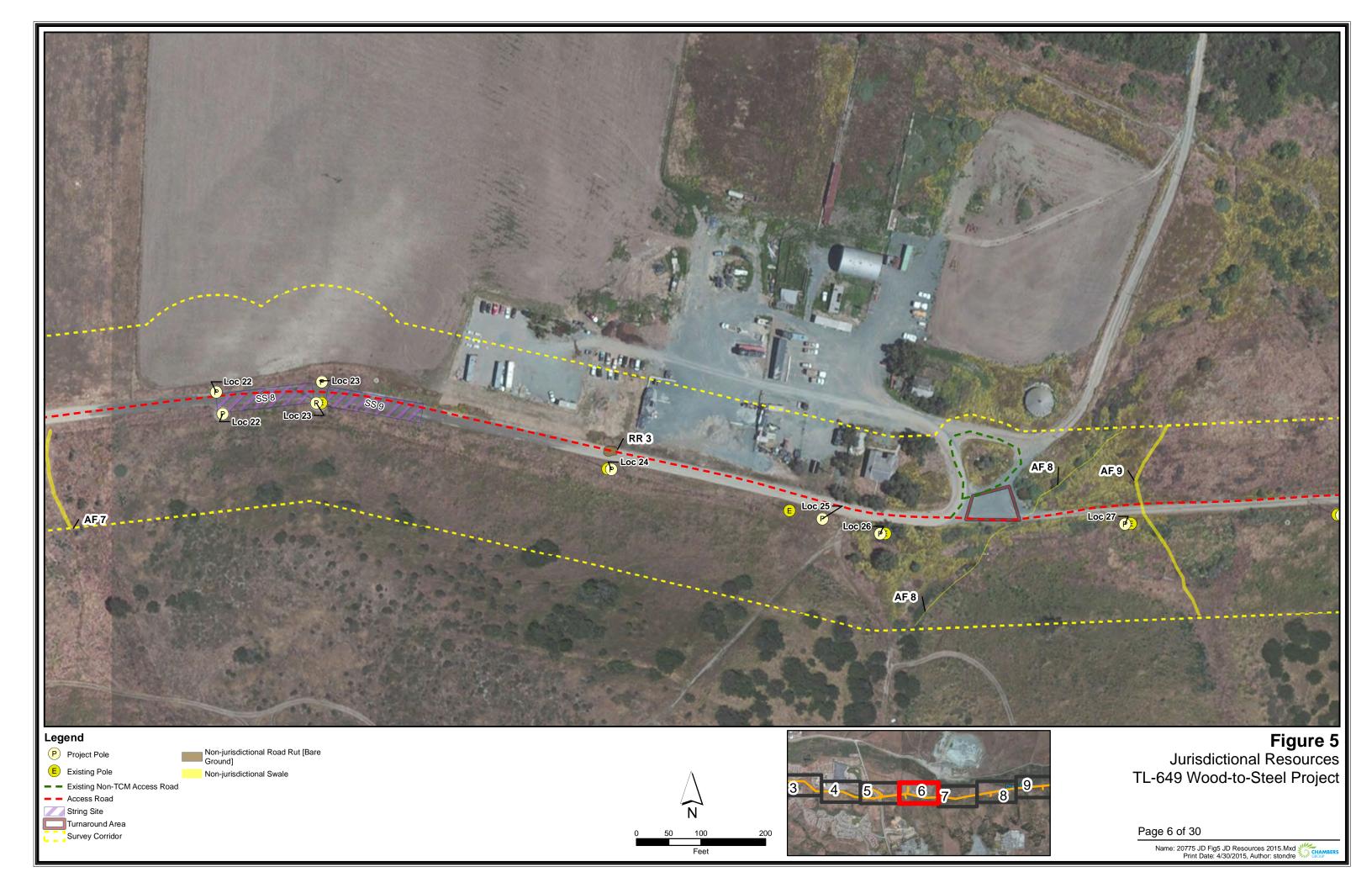


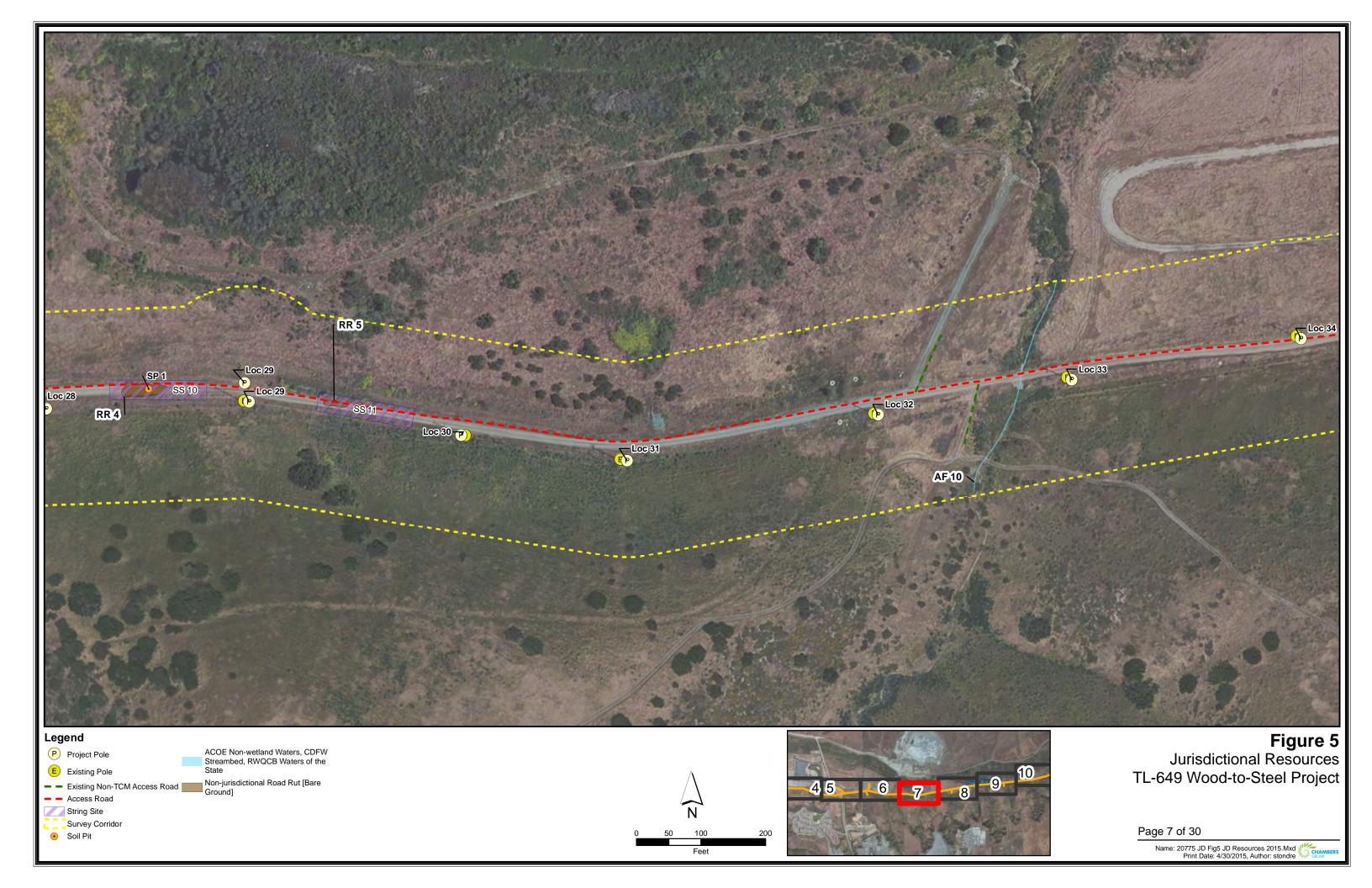


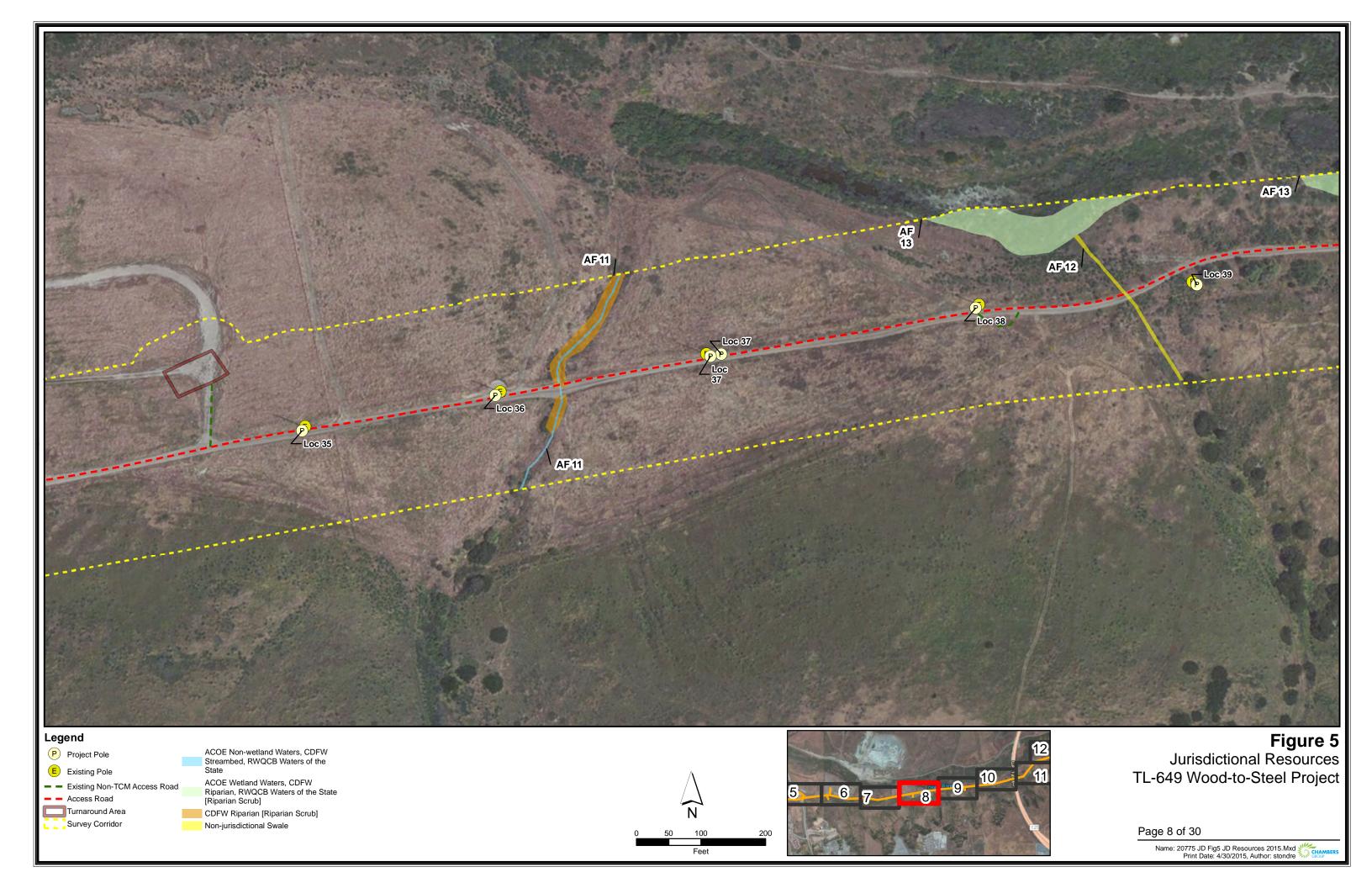


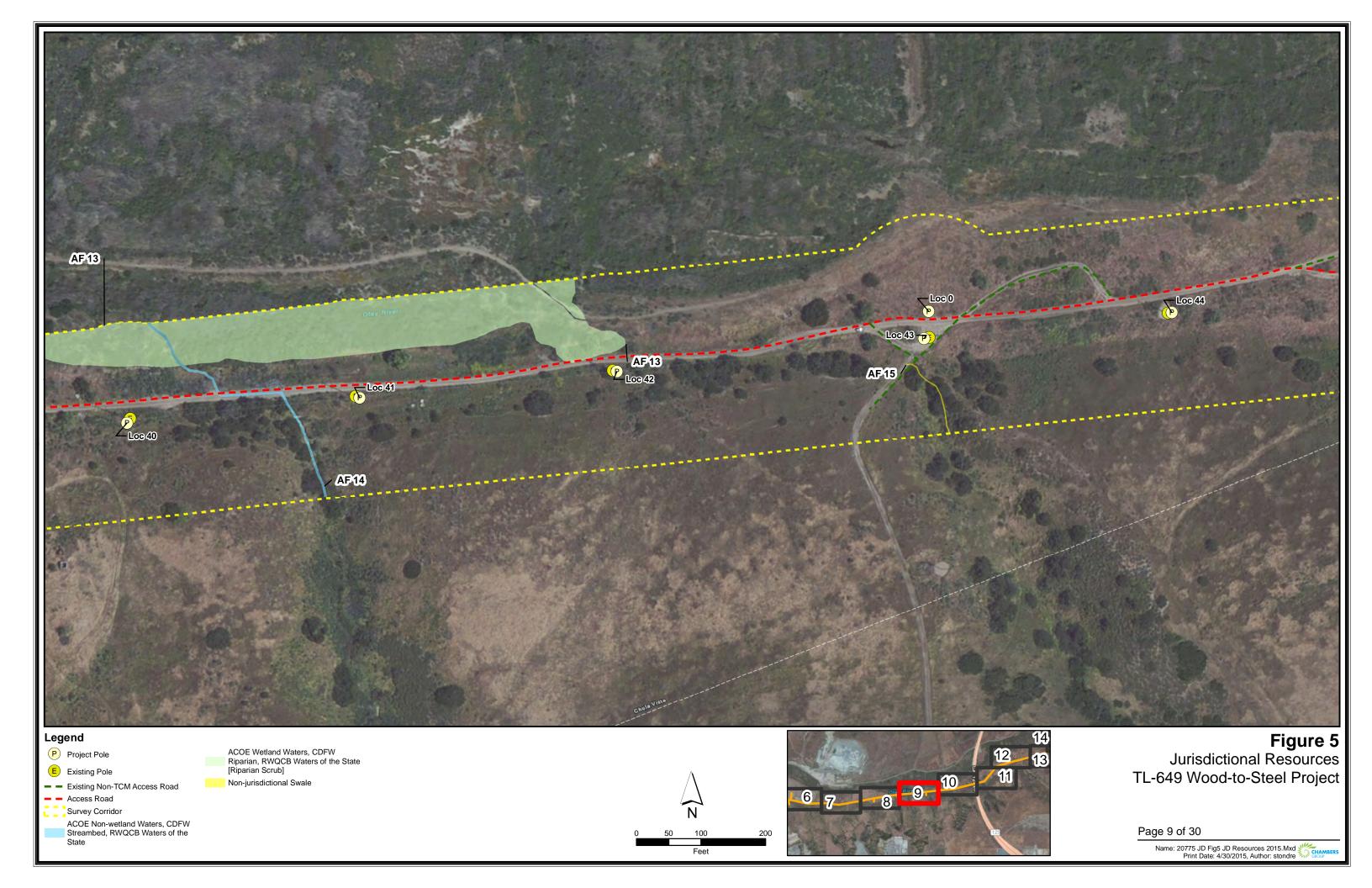


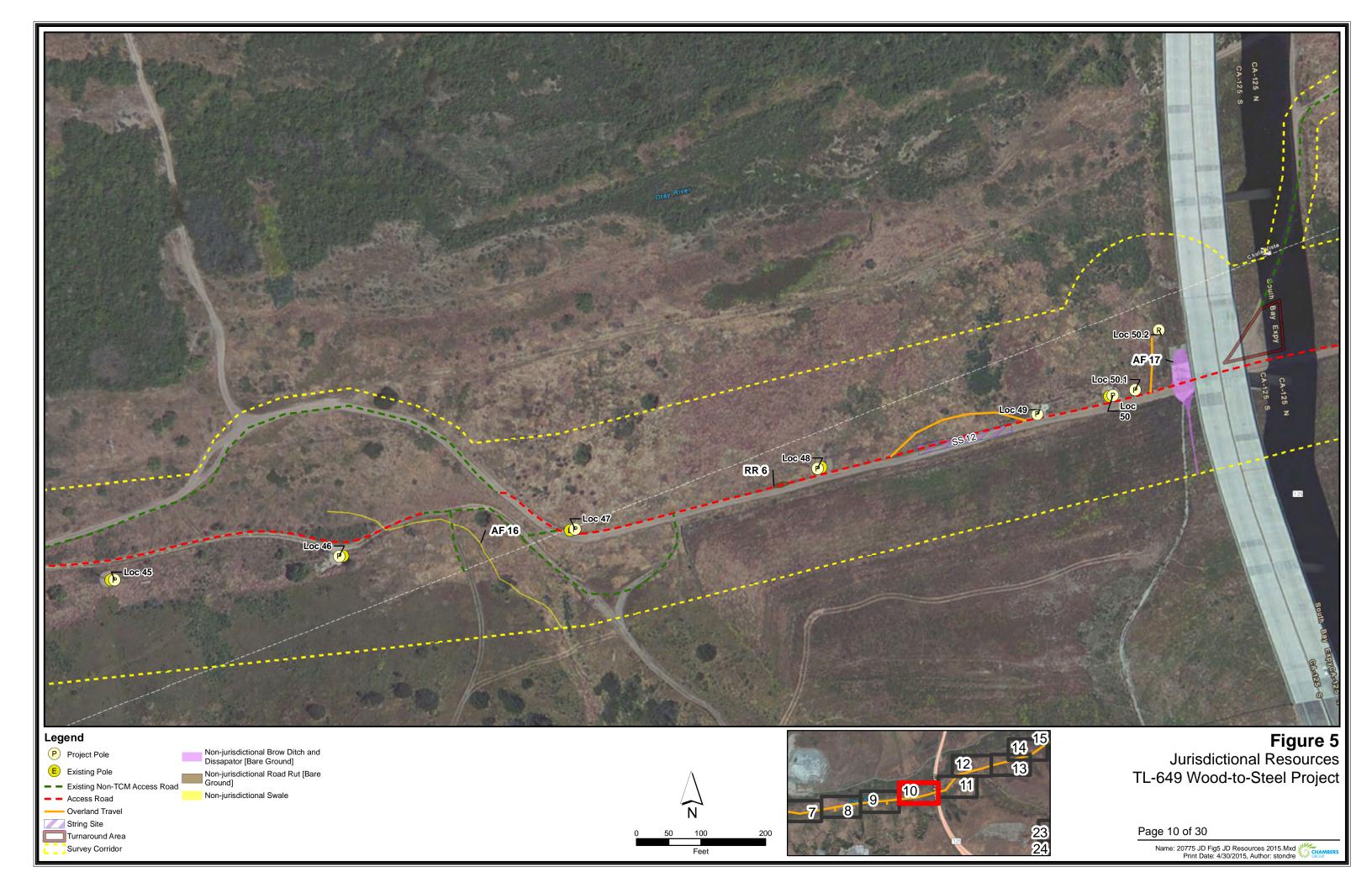


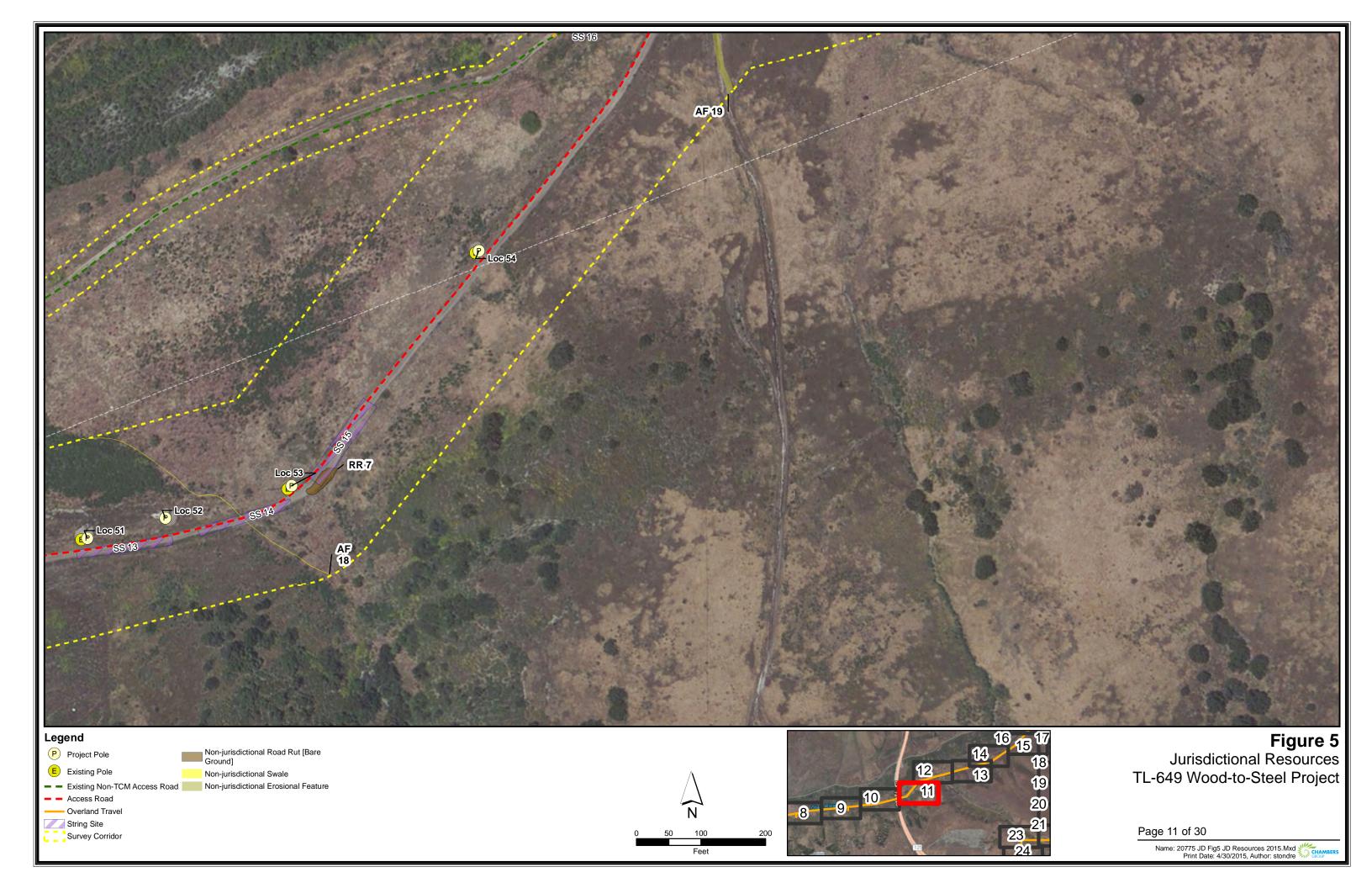


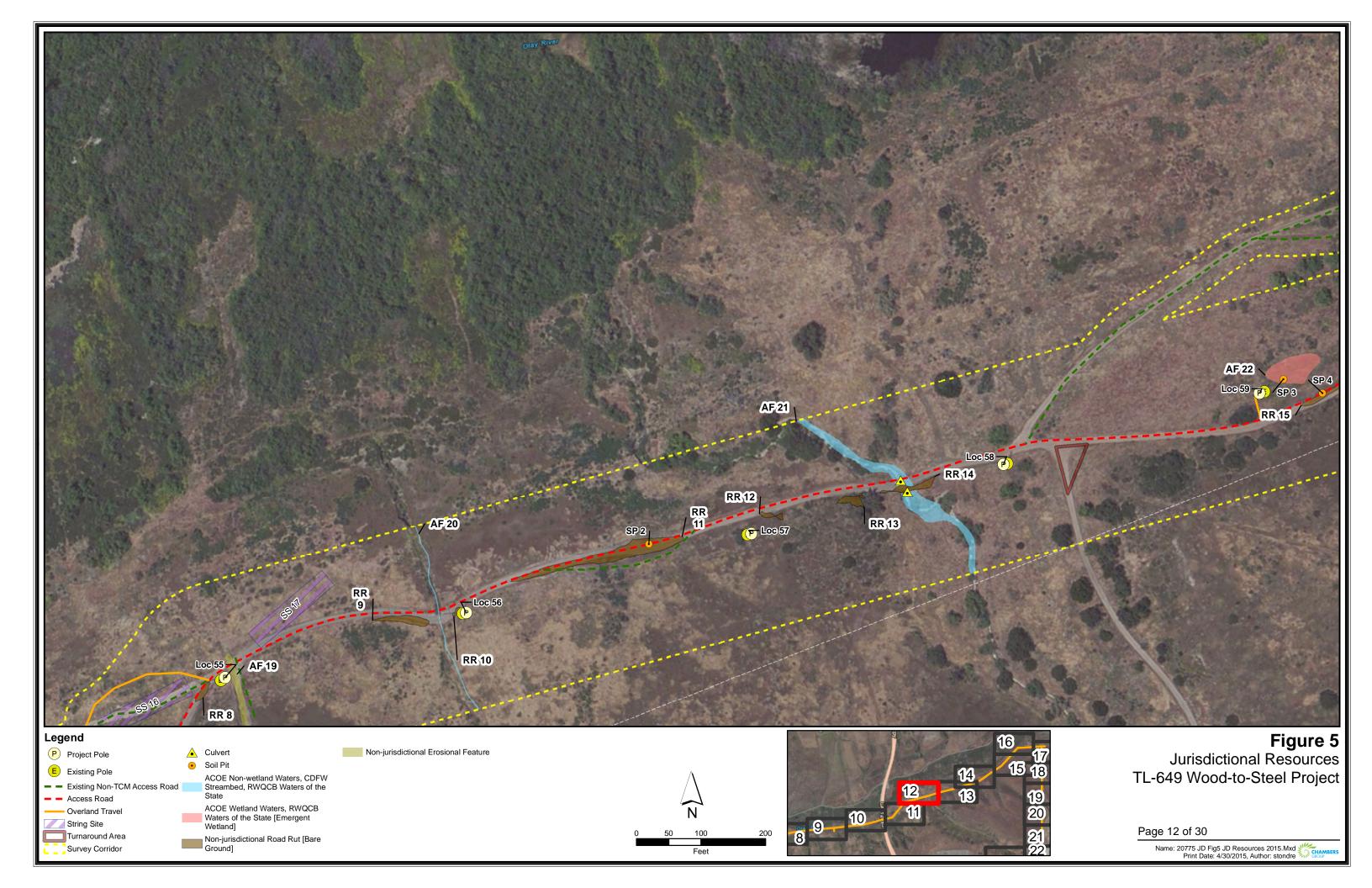


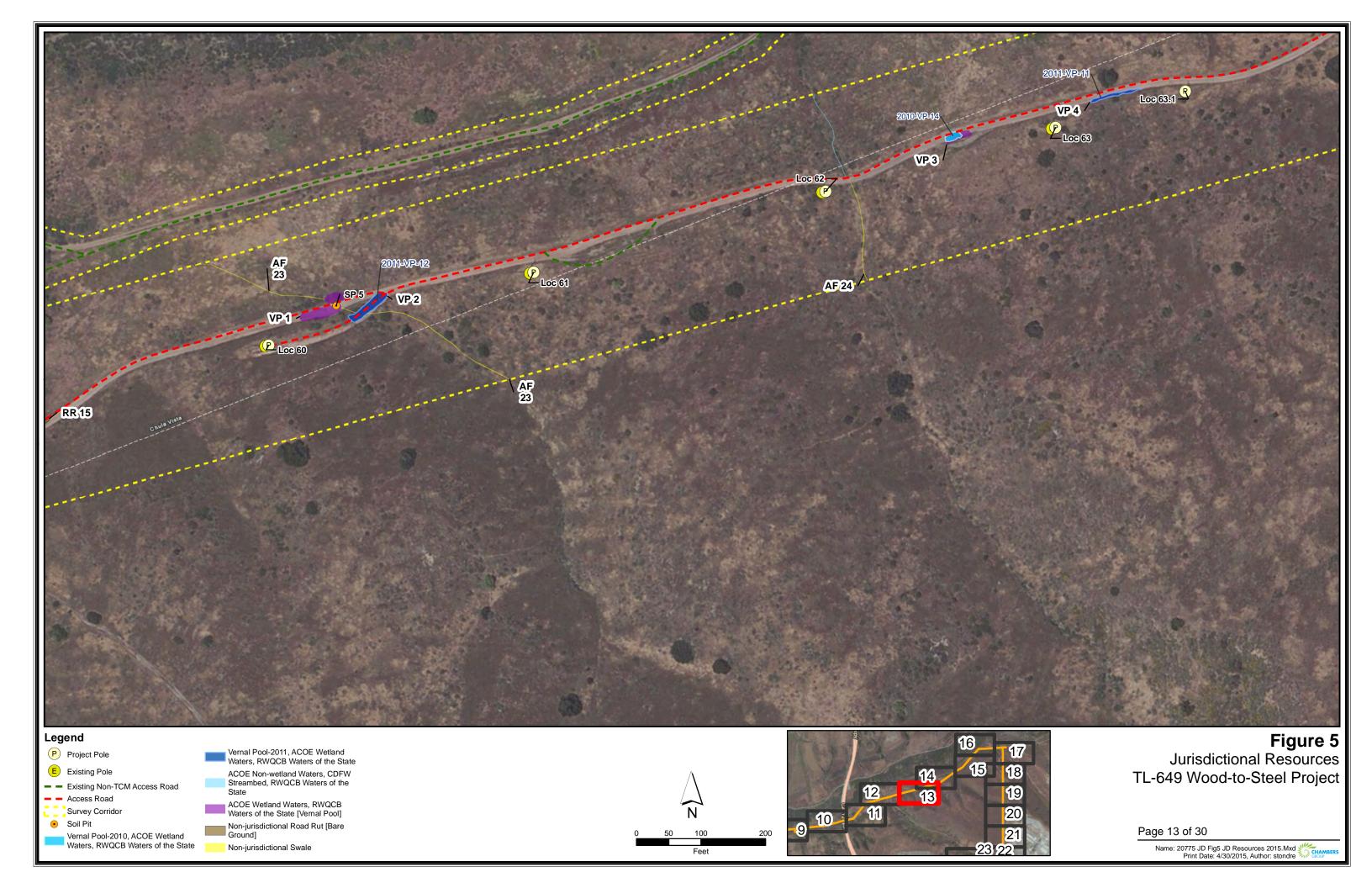


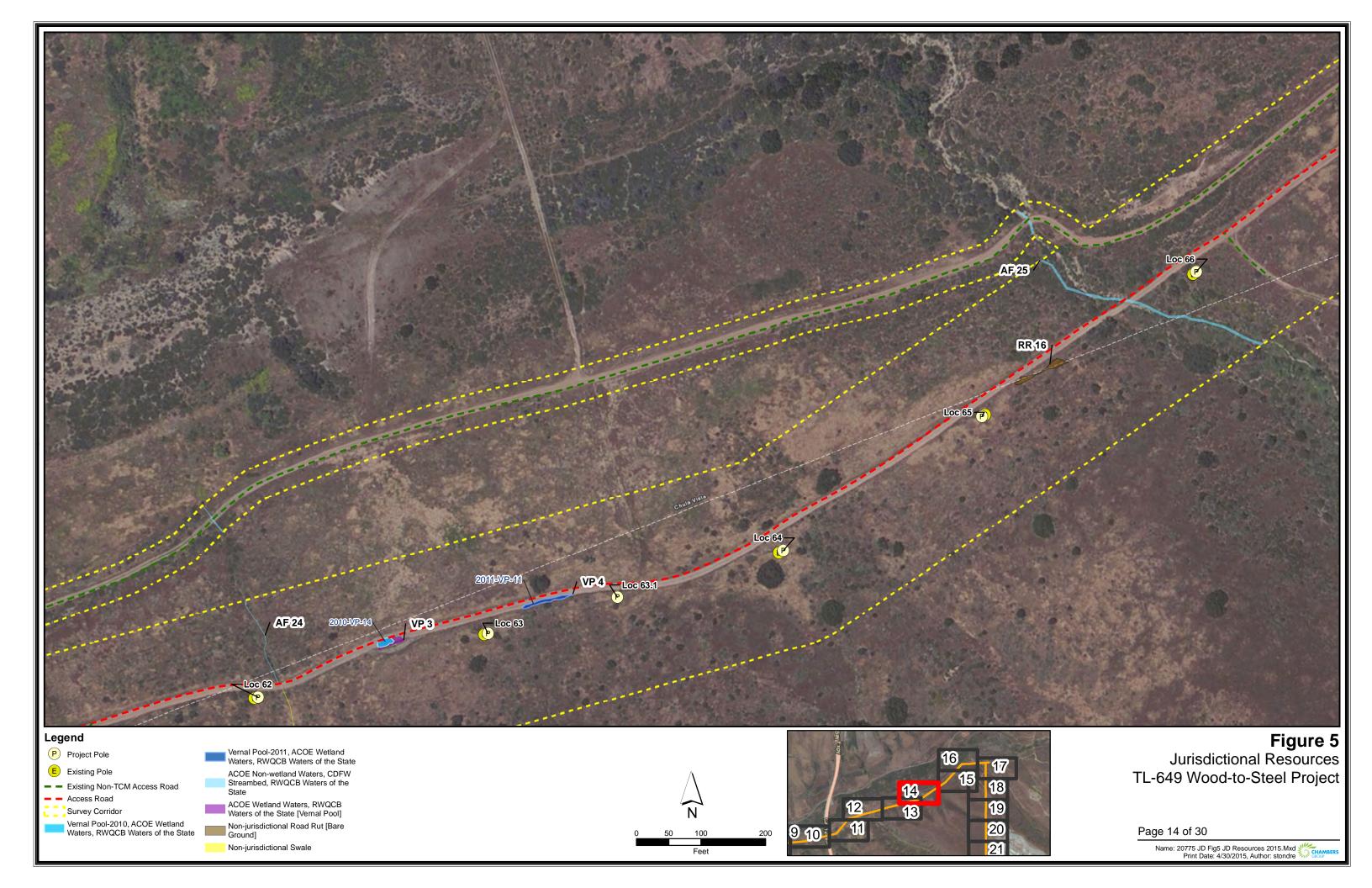


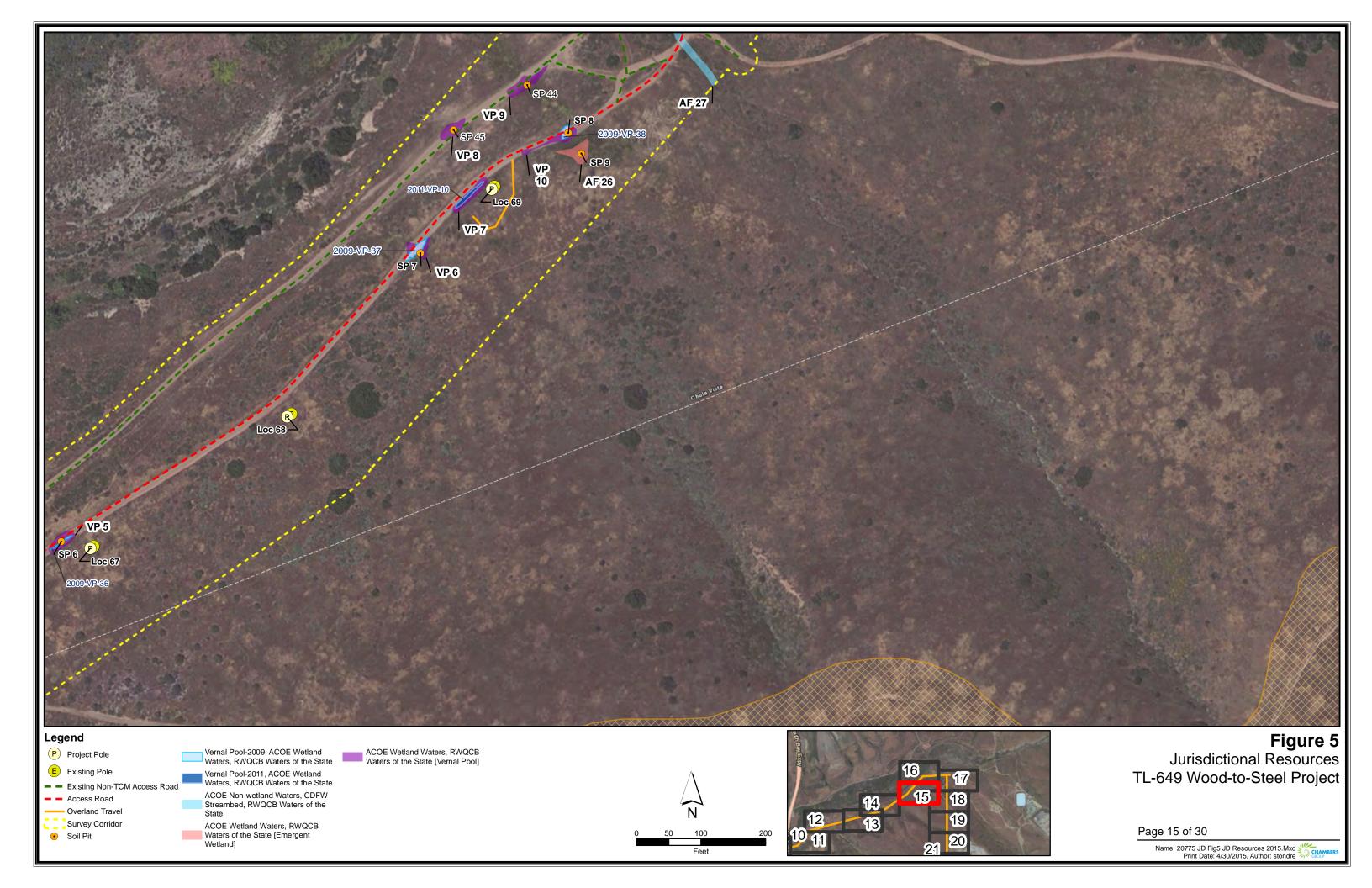


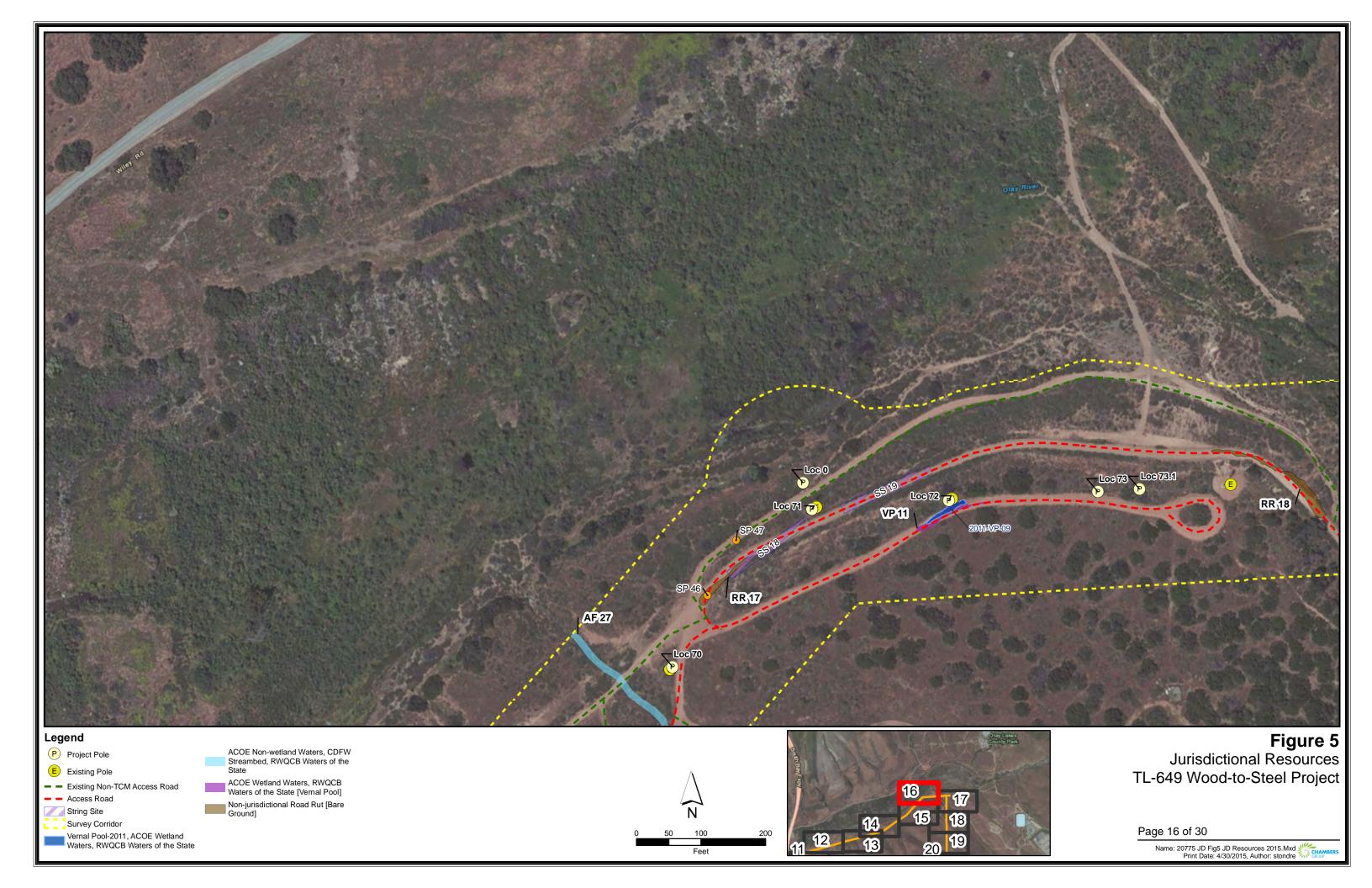


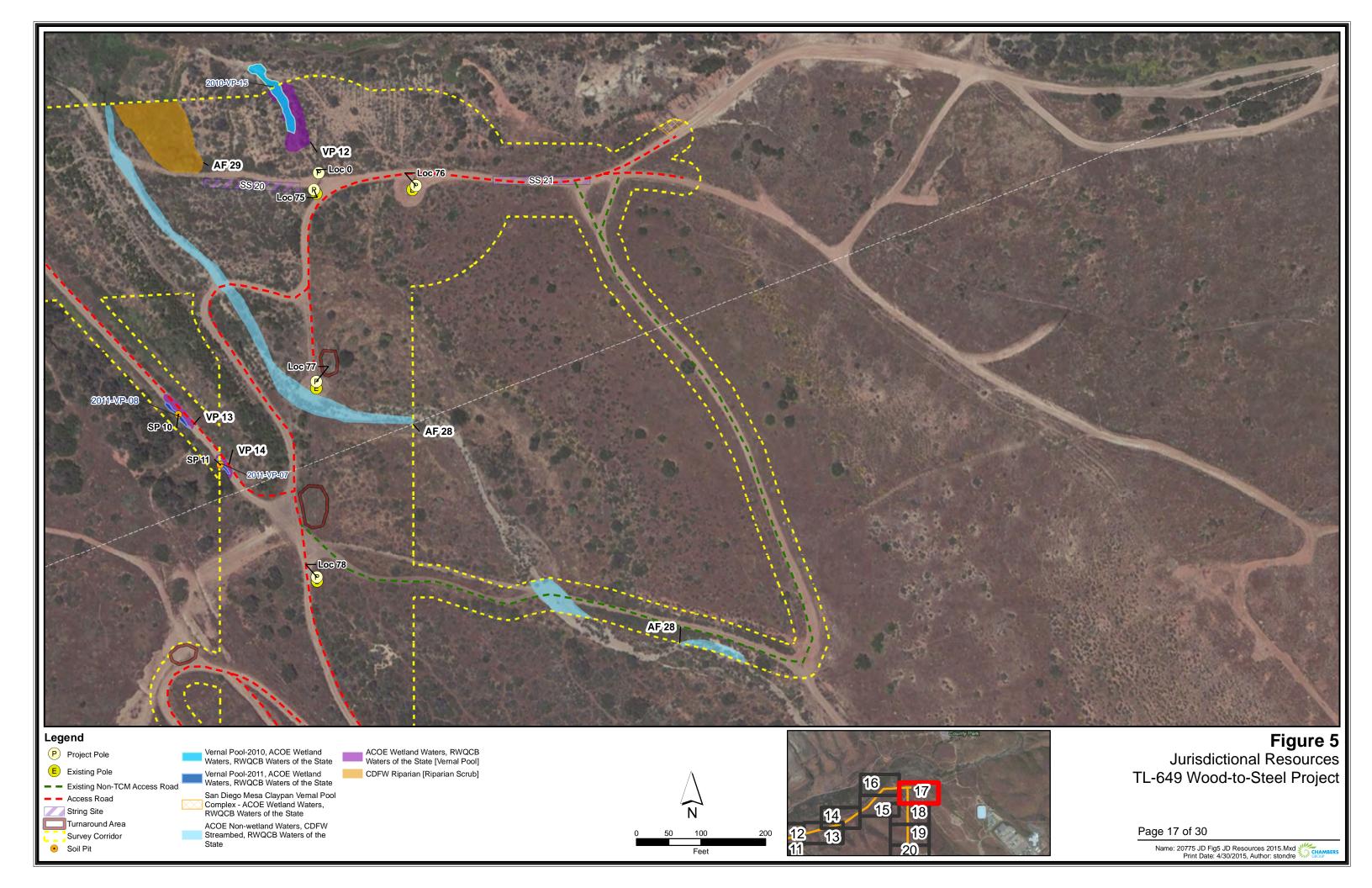


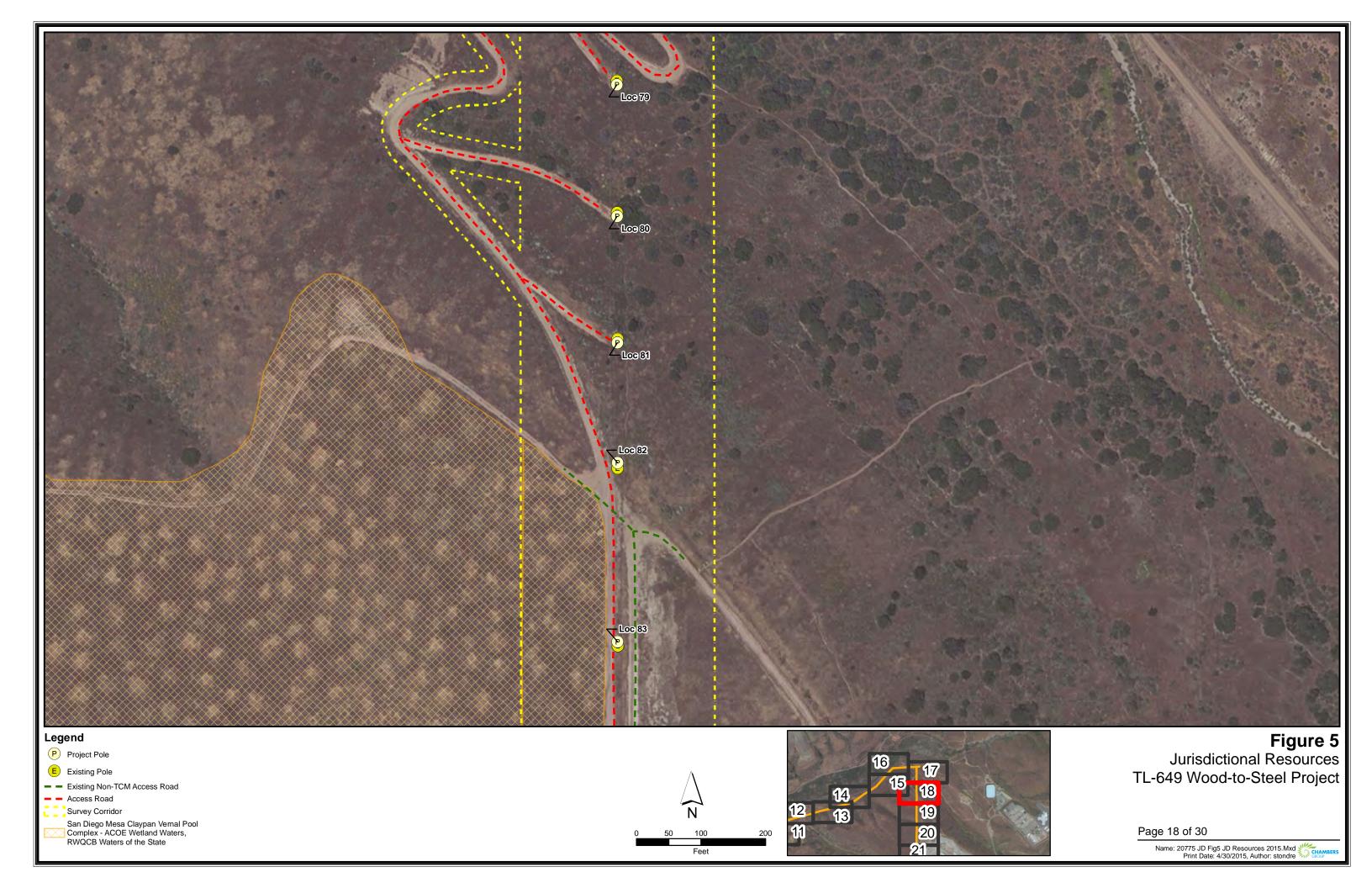


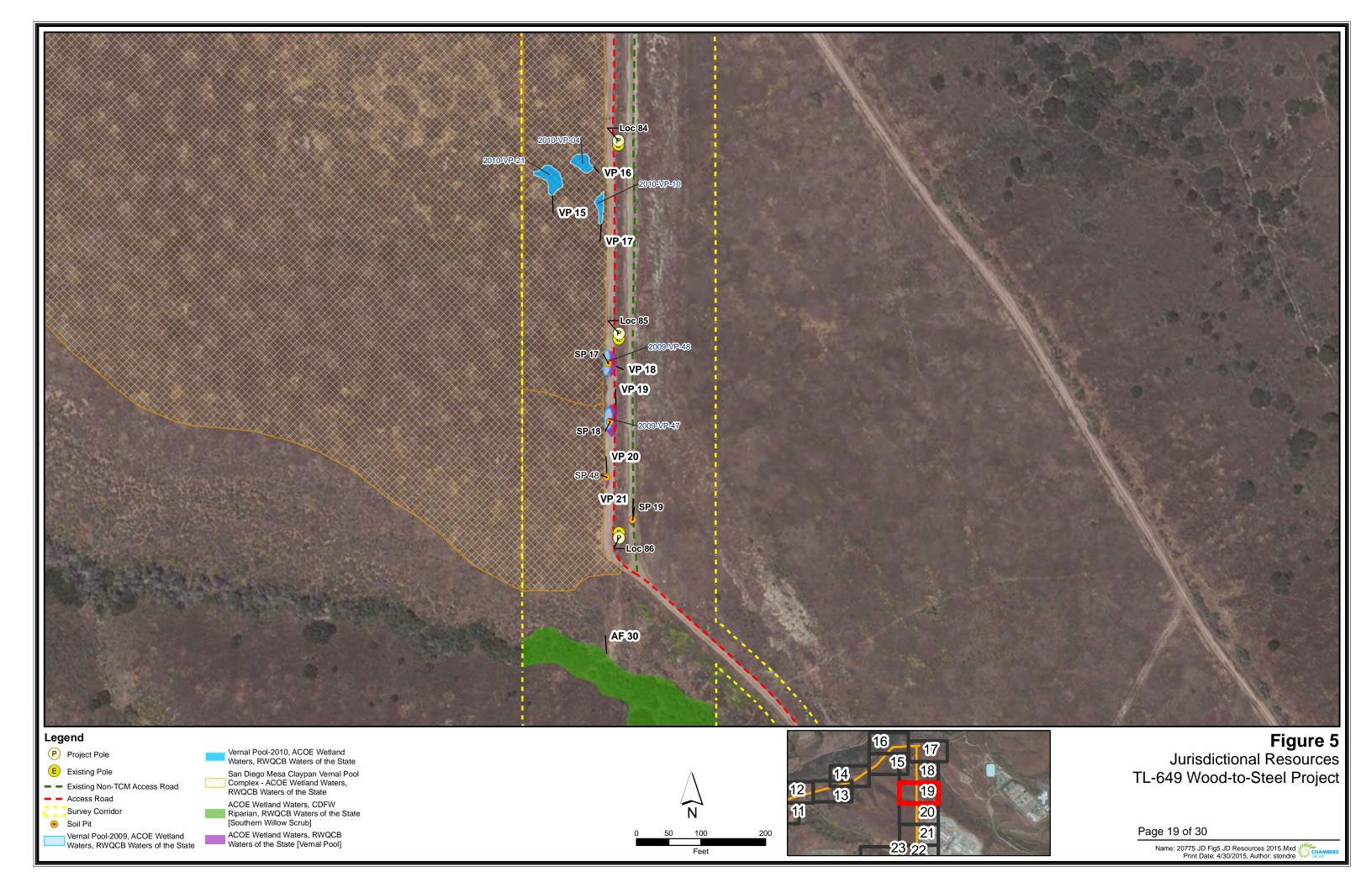


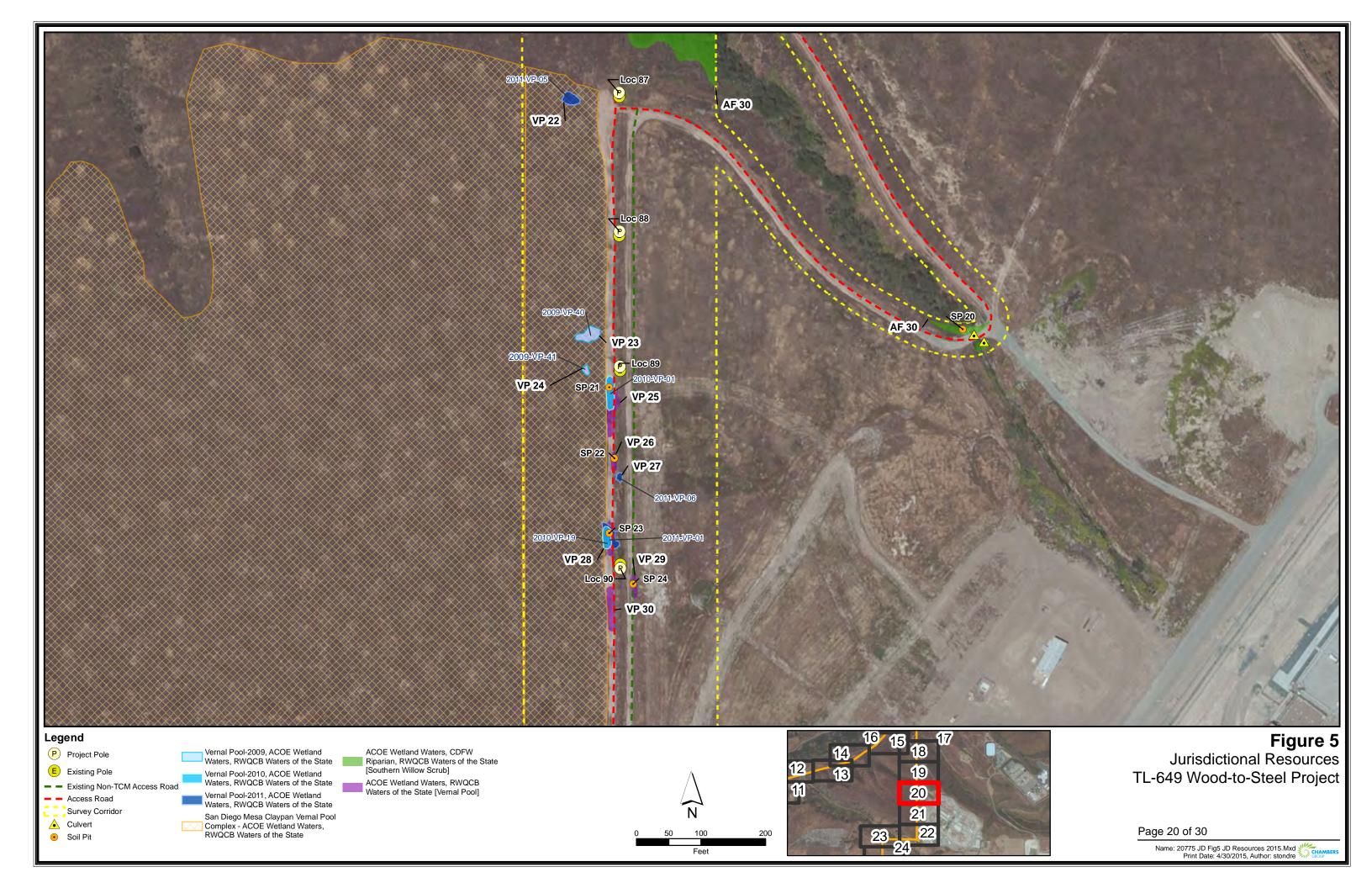


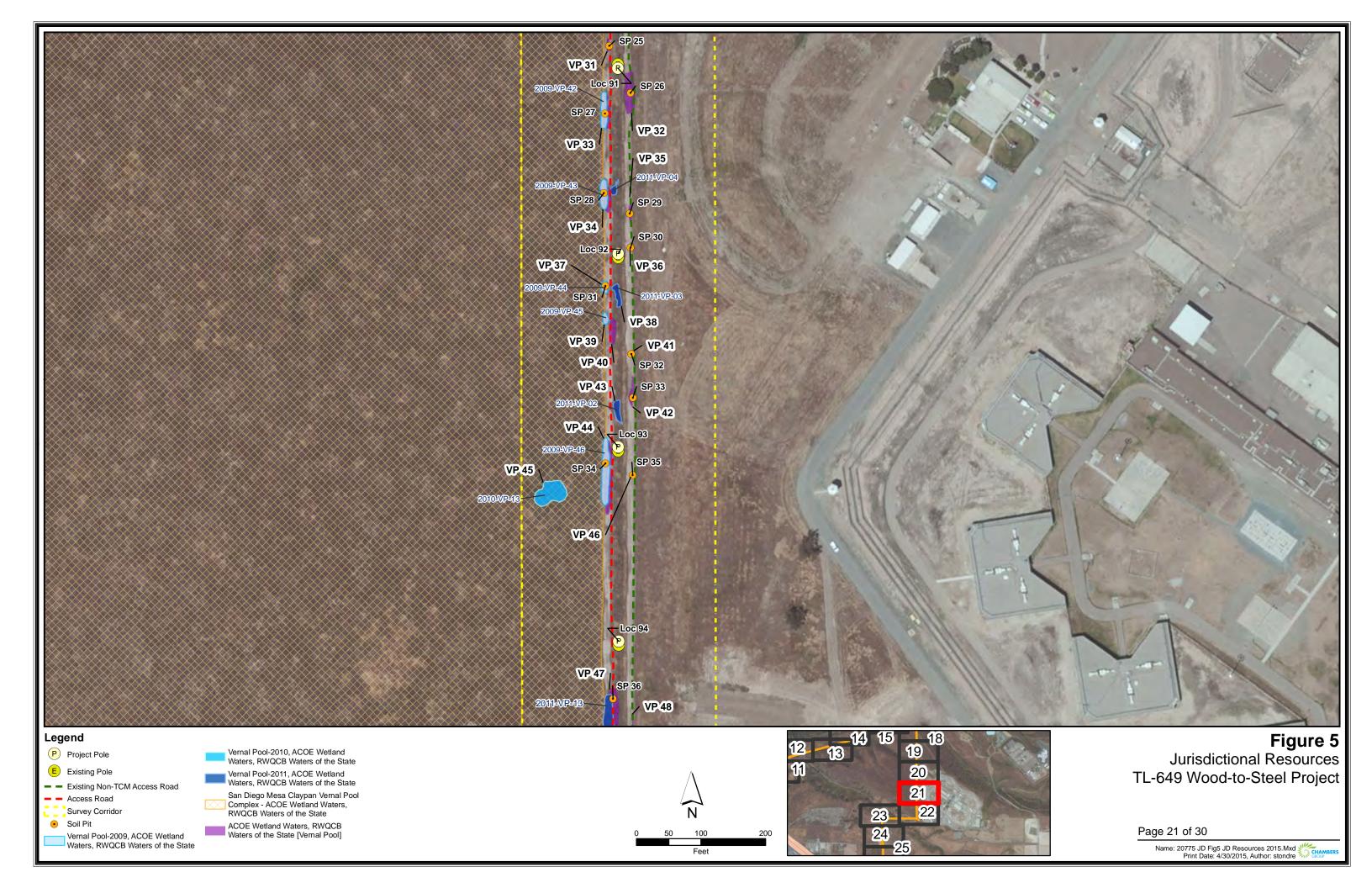


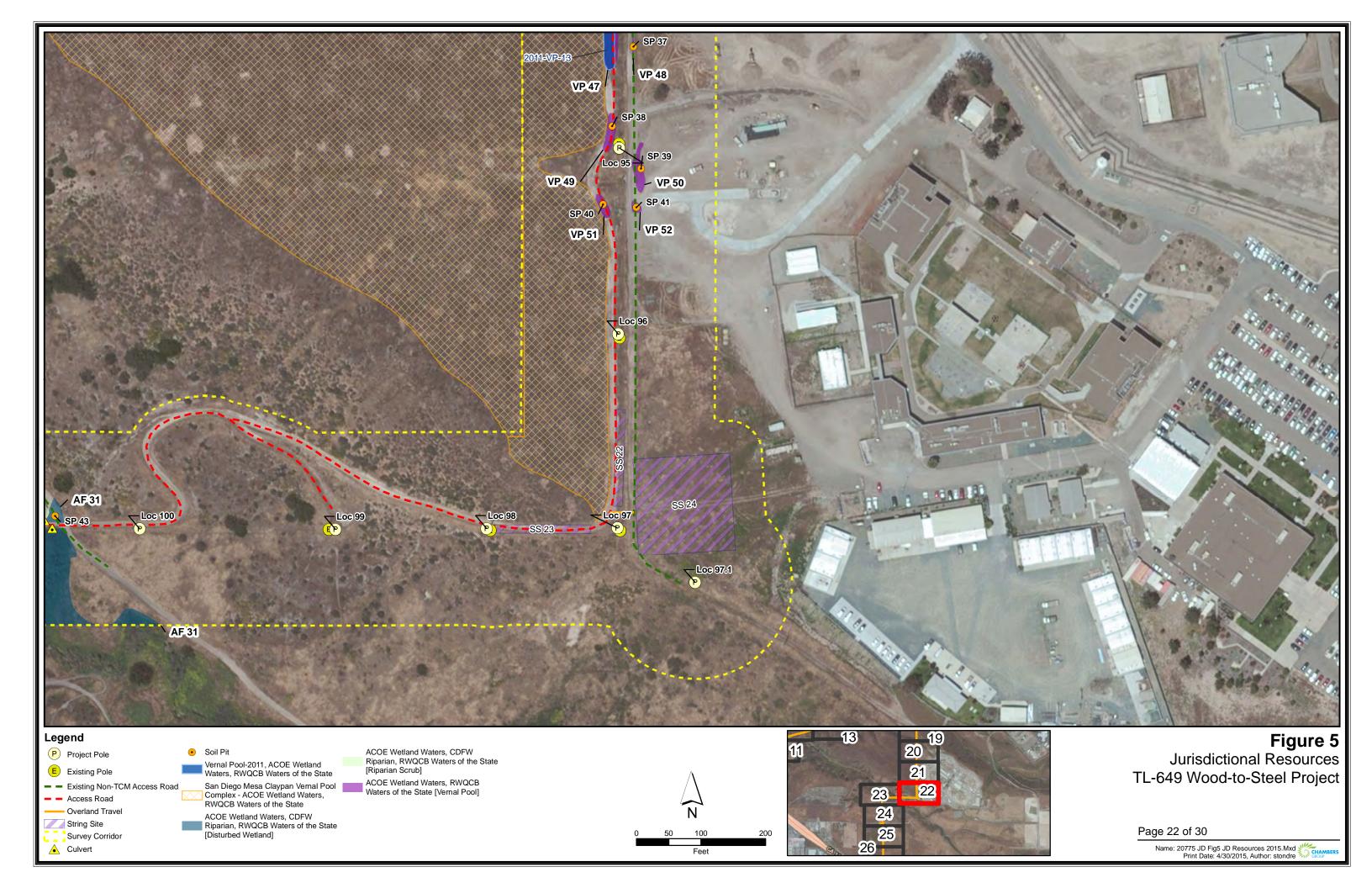


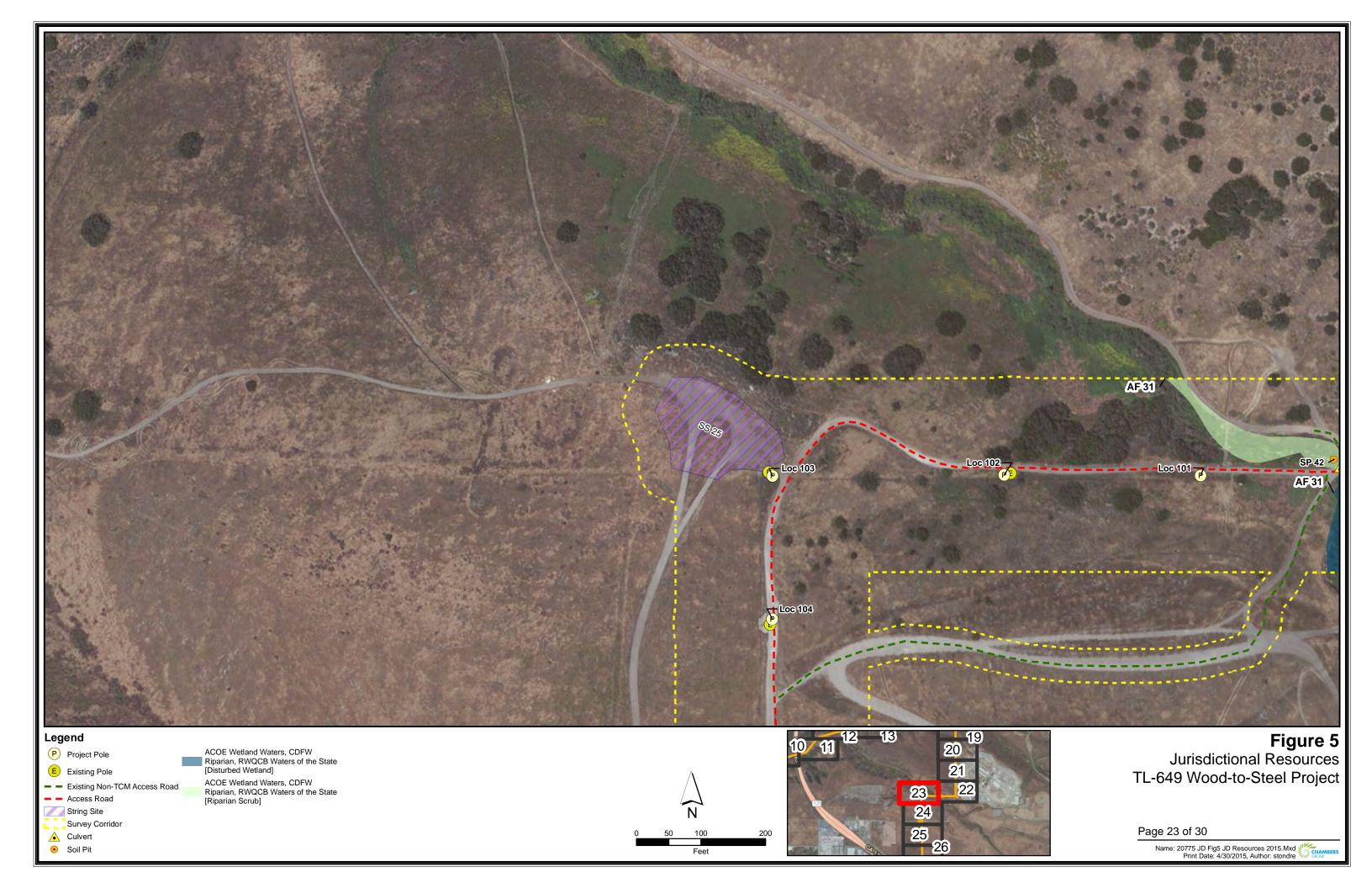


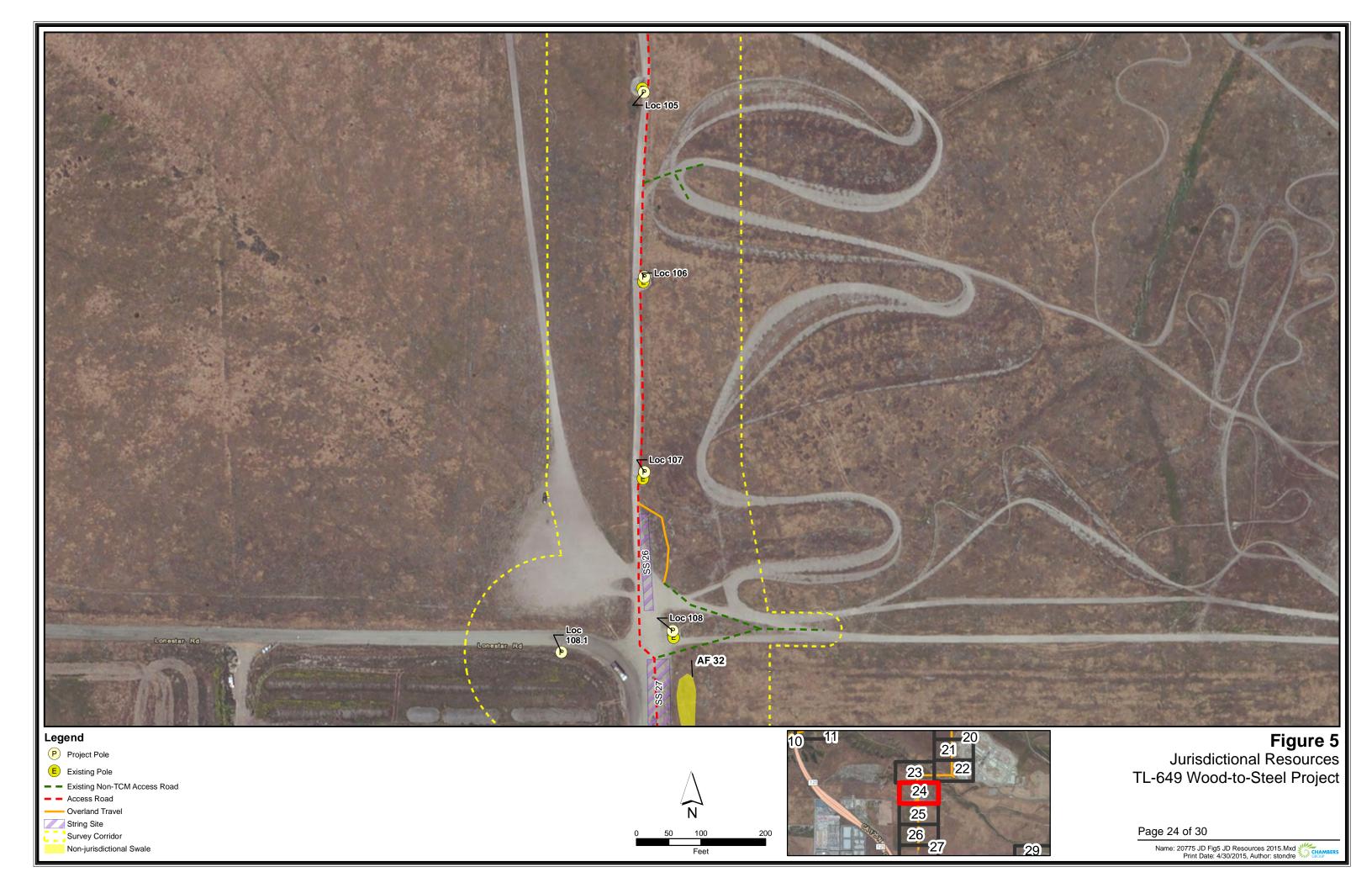


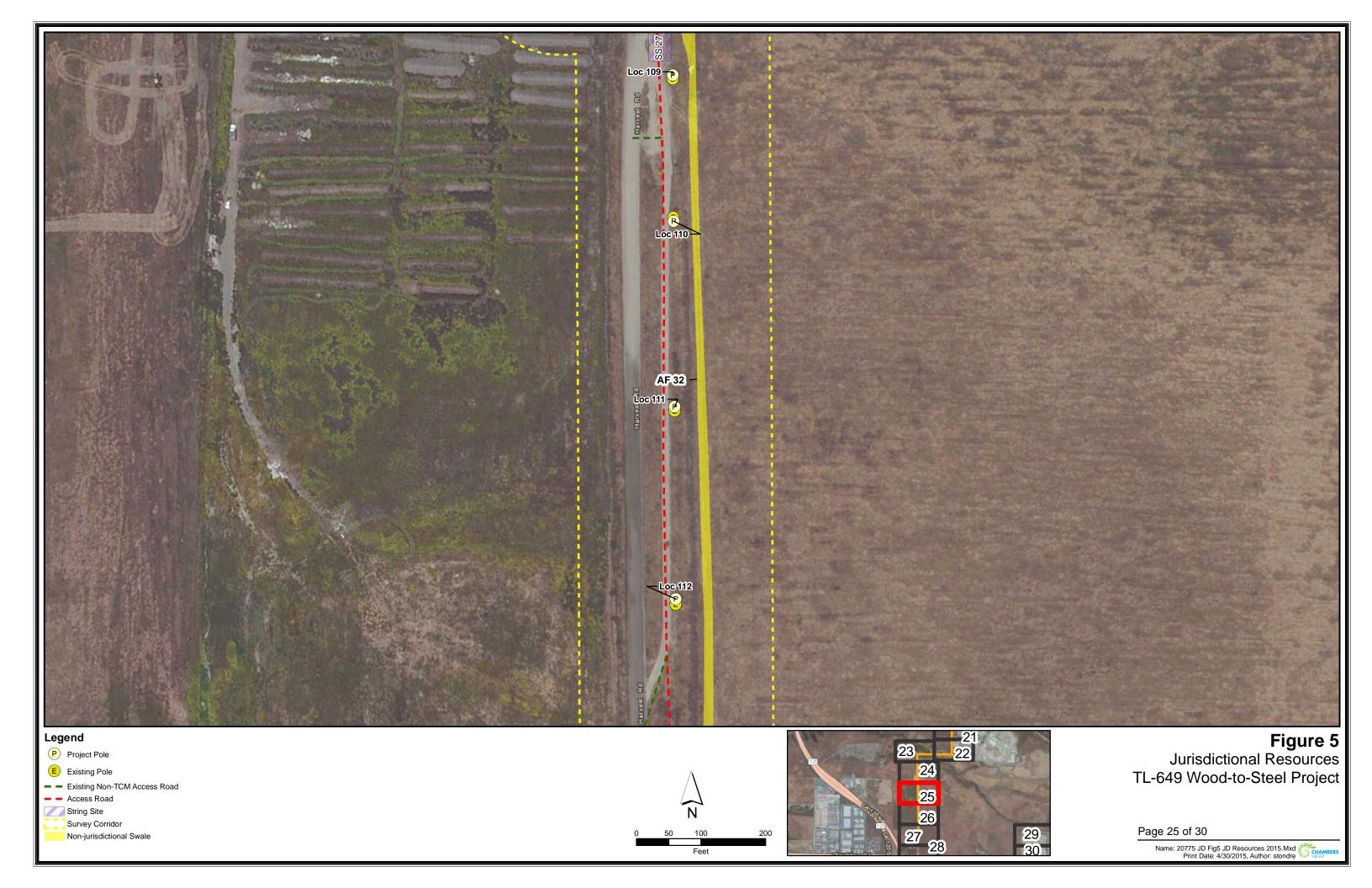


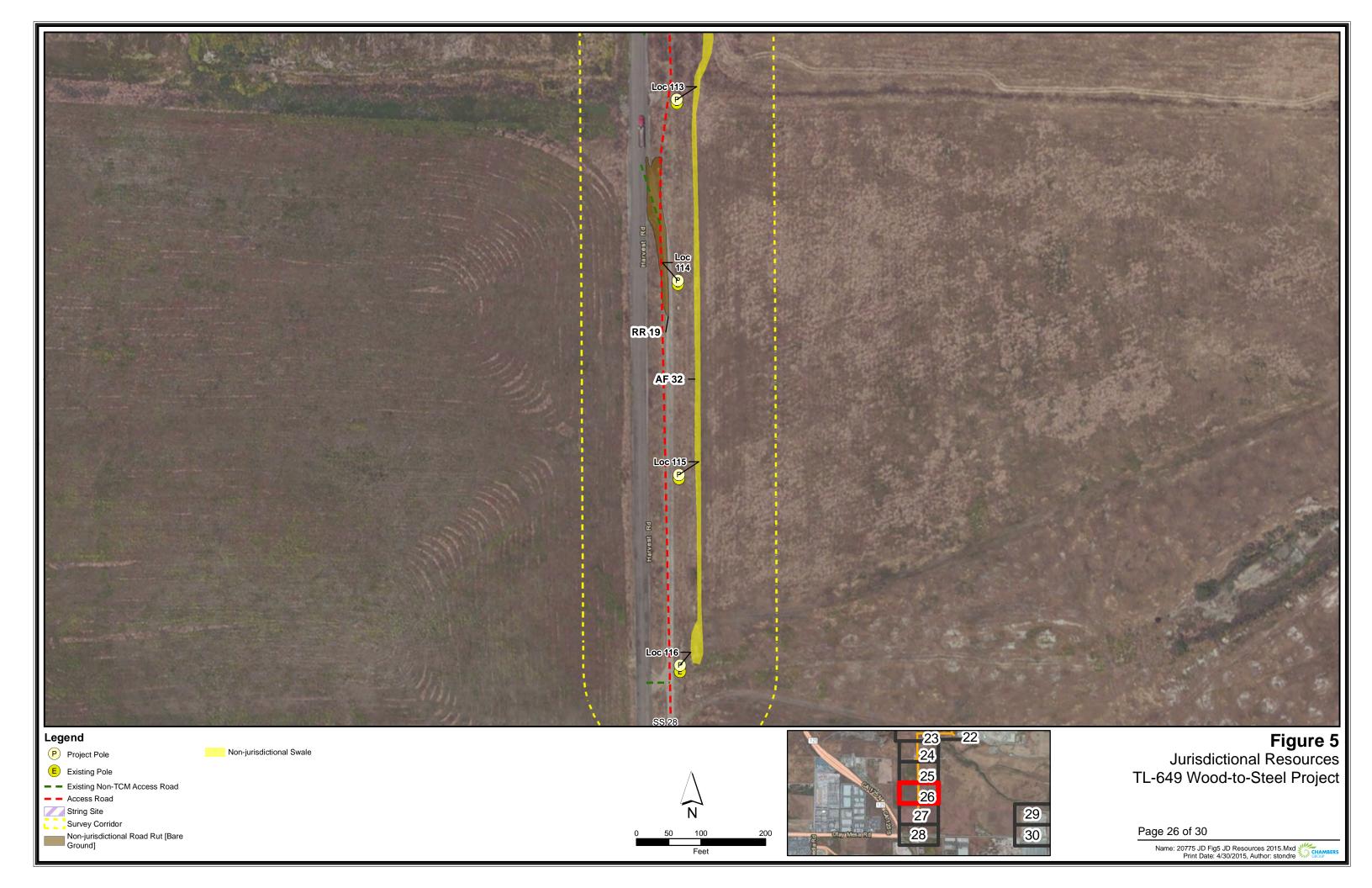










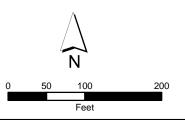






- - Access Road

Survey Corridor

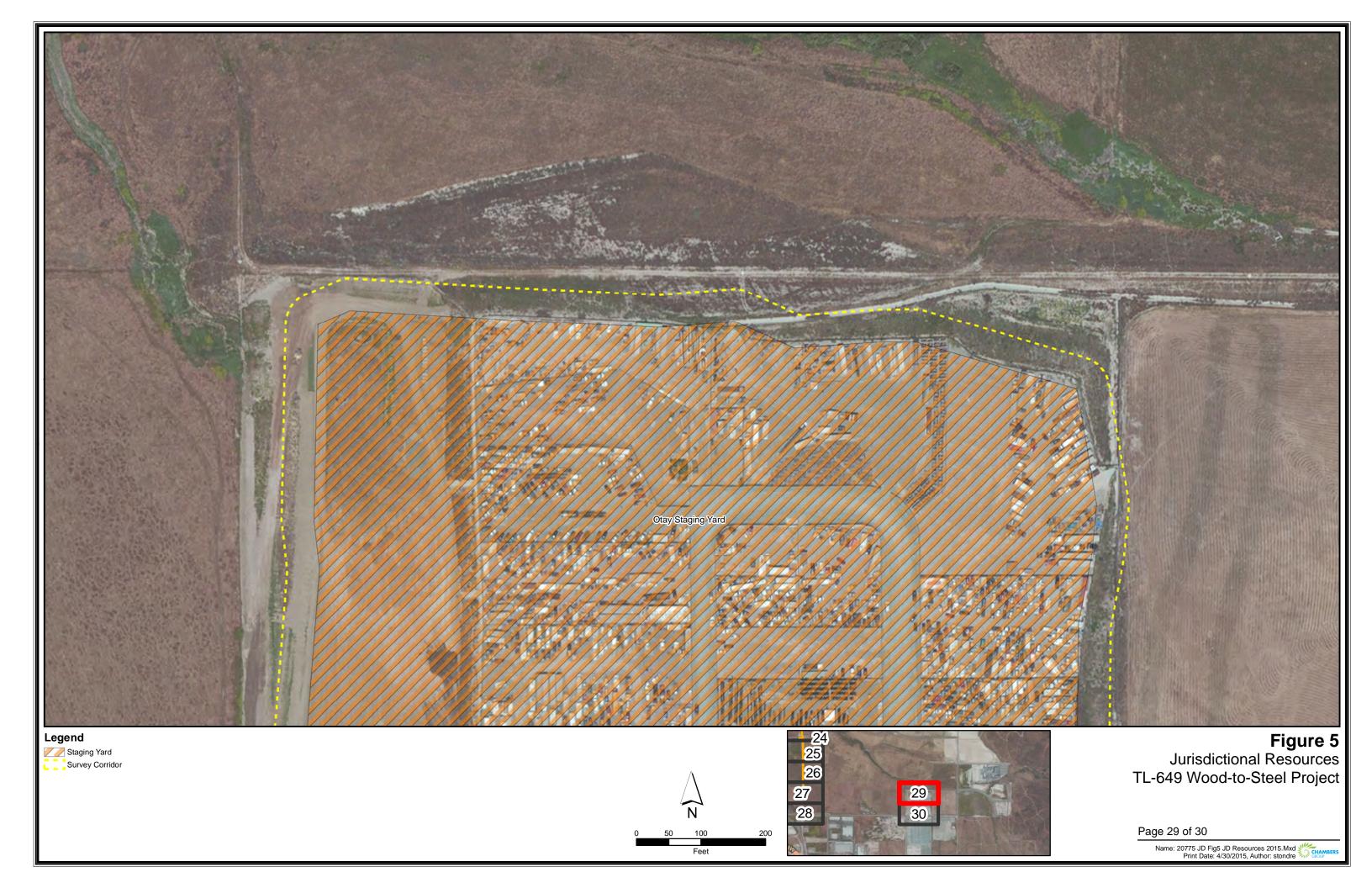




TL-649 Wood-to-Steel Project

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Name: 20775 JD Fig5 JD Resources 2015.Mxd Print Date: 4/30/2015, Author: stondre



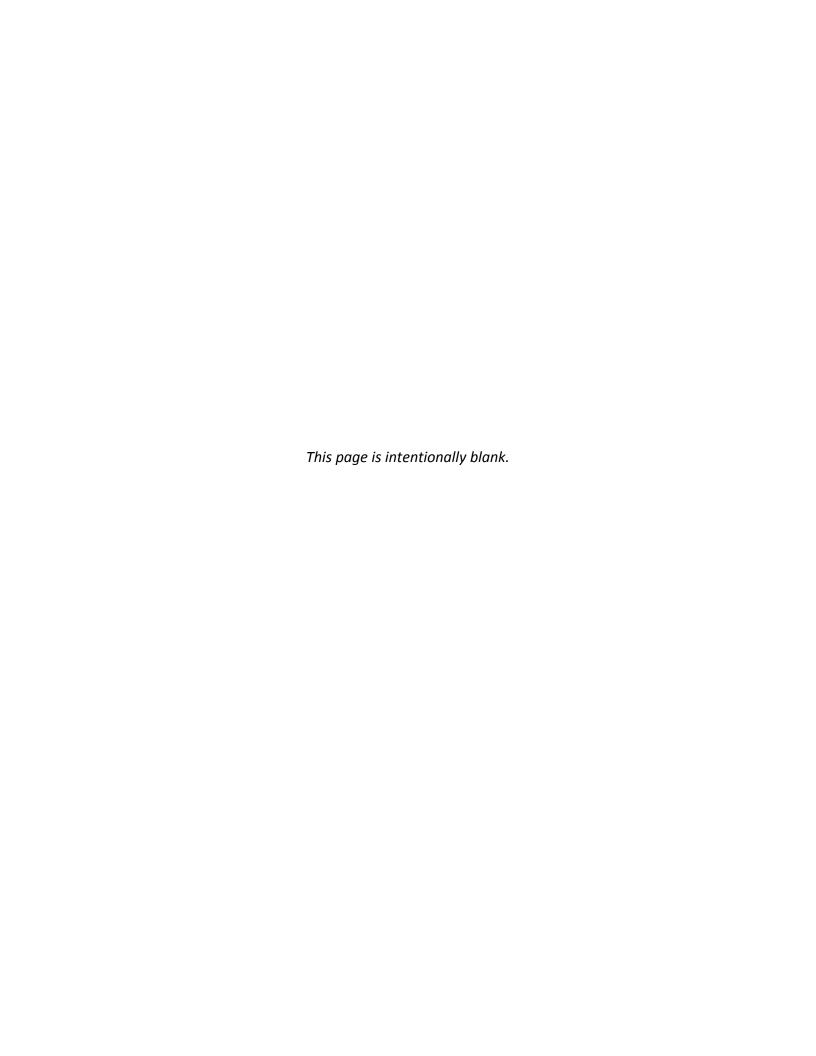


29

TL-649 Wood-to-Steel Project

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Name: 20775 JD Fig5 JD Resources 2015.Mxd Print Date: 4/30/2015, Author: stondre



Project/Site: TL-649 Otay San Ysidro Border Wood to	Steel	City/County	:Chula Vis	sta/San Diego	Sampling Date: 03/20/2015
Applicant/Owner: San Diego Gas & Electric		State:CA	Sampling Point:1		
Investigator(s): Ian Maunsell, Christina Congedo		Section, To	wnship, Rar	nge:Otay Mesa quad,	Otay (Estudillo) land grant
Landform (hillslope, terrace, etc.): Mesa		Local relief	f (concave, o	convex, none):Concave	Slope (%):0
Subregion (LRR):C - Mediterranean California	Lat:32.5	58526		Long:-116.99113	Datum: NAD-83
Soil Map Unit Name: Diablo clay				-	cation:Palustrine
Are climatic / hydrologic conditions on the site typical for this	time of ve	ear? Yes 🕡	No (
<u>.</u>		disturbed?		Normal Circumstances"	
		oblematic?		eded, explain any answe	
SUMMARY OF FINDINGS - Attach site map s					
Hydrophytic Vegetation Present? Yes No					
		ls th	ne Sampled	Area	
Wetland Hydrology Present? Yes No			in a Wetlan	_	No •
Remarks: Vegetation nonexistent within access road. does not traverse a known vernal pool comp			~ 1	_	
VEGETATION					
	Absolute % Cover	Dominant Species?		Dominance Test wor	
1.None	0	No	Otatus	Number of Dominant S That Are OBL, FACW,	
2.					
3.				Total Number of Domi	
4.					. ,
Total Cover	0 %			Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum 1.None	0	No		Prevalence Index wo	rke hoot:
2.				Total % Cover of:	Multiply by:
3.				OBL species	x 1 = 0
4.				FACW species	x 2 = 0
5.				FAC species	x 3 = 0
Total Cover:	0 %			FACU species	x 4 = 0
Herb Stratum				UPL species	x 5 = 0
1.None	0	No		Column Totals:	(A) 0 (B)
2				Prevalence Index	x = B/A =
3				Hydrophytic Vegetati	
5.				Dominance Test is	
6.				Prevalence Index	
7		·——·		Morphological Ada	aptations ¹ (Provide supporting ks or on a separate sheet)
8					ophytic Vegetation¹ (Explain)
Total Cover: Woody Vine Stratum	0 %			, , , , , , , , , , , , , , , , , , , ,	() ,
1.None	0	No		¹ Indicators of hydric s	oil and wetland hydrology must
2.				be present.	
Total Cover:	0 %			Hydrophytic Vegetation	
	of Biotic C		%	Present? Ye	es O No 💿
Remarks: Sampling conducted within a road rut poo based on surrounding conditions.	l. Hydro _l	phytic vego	etation is n	ot expected to occur	in undisturbed conditions
cases on surrounding conditions.					

SOIL Sampling Point: 1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Loc² Texture (inches) Color (moist) Color (moist) ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (**LRR C**) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (**LRR D**) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) ³Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No (Yes 🕡 Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils assumed due to strong hydrology indicators. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) X Saturation (A3) X Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Shallow Aguitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Yes (No (Surface Water Present? Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? No (Depth (inches): Yes (Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:Road rut pool with surface water present at time of survey. Spadefoot toad tadpoles (B13) present.

US Army Corps of Engineers

Project/Site: TL-649 Otay San Ysidro Border Wood to	Steel	City/County	Chula Vis	sta/San Diego	Sampling	Date: 03/20/2015
Applicant/Owner: San Diego Gas & Electric	State:CA	Sampling I	Point:2			
Investigator(s):Ian Maunsell, Christina Congedo		Section, To	ownship, Rai	nge:Otay Mesa qu	ad, Otay (Estu	dillo) land grant
Landform (hillslope, terrace, etc.): Mesa		Local relie	f (concave, o	convex, none):Conc	cave	Slope (%):0
Subregion (LRR):C - Mediterranean California	Lat:32.1	19502		Long:-116.96015	,	Datum:NAD-83
Soil Map Unit Name: Diablo clay				NWI cla	ssification:Palus	strine
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes	No C	(If no, explain	n in Remarks.)	
Are Vegetation Soil or Hydrology si	gnificantly	disturbed?	Are "	Normal Circumstand	ces" present? Y	es • No C
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eded, explain any a	nswers in Remar	rks.)
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point lo	cations, transe	ects, importa	nt features, etc
Hydrophytic Vegetation Present? Yes No	. •					
		ls ti	he Sampled	Area		
Wetland Hydrology Present? Yes No			nin a Wetlar		O No @	•
Remarks:Sparse upland vegetation present within account of the second of			•		_	•
rut pool does not traverse a known vernal p	ool comp	olex and no	o vernal po	ol indicator plant	species observ	ed to occur.
VECETATION						
VEGETATION	Absolute	Dominant	Indicator	Dominance Test	workshoot	
		Species?		Number of Domina		
1.None	0	No		That Are OBL, FA		0 (A)
2.				Total Number of D	ominant	
3				Species Across Al		2 (B)
4				Percent of Domina	ant Species	
Total Cover Sapling/Shrub Stratum	: 0 %			That Are OBL, FA	CW, or FAC:	0.0 % (A/B)
1.None	0	No		Prevalence Index	worksheet:	
2.				Total % Cove	r of:	Multiply by:
3.				OBL species	x 1 :	= 0
4.				FACW species	x 2 :	= 0
5	-			FAC species	x 3 :	
Total Cover: Herb Stratum	0 %			FACU species UPL species	x 4 :	O .
1.Schismus barbatus	.5	Yes	UPL		0.75 x 5	
2.Hypochaeris glabra	.25		UPL	Column Totals:	0.75 (A)	3.75 (B
3.					ndex = B/A =	5.00
4.				Hydrophytic Veg		rs:
5.				Dominance Te		
6				Prevalence In		rovide supporting
7					marks or on a se	
8.				X Problematic H	lydrophytic Vege	etation¹ (Explain)
Total Cover:	0.75%					
1.None	0	No			ric soil and wetla	and hydrology must
2.				be present.		
Total Cover:	0 %			Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 99.25% % Cover	of Biotic C	Crust 0	%	Present?	Yes 🔘	No 💿
Remarks: Sampling conducted within a road rut poo	l. Hydroı	ohytic veg	etation is n	ot expected to occ	cur in undisturb	oed conditions
based on surrounding conditions including				•		

SOIL Sampling Point: 2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Loc² Texture (inches) Color (moist) Color (moist) ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (**LRR C**) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (**LRR D**) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) ³Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes 🕡 No C Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils assumed due to strong hydrology indicators. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) X Saturation (A3) X Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Shallow Aguitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Yes (No (Surface Water Present? Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Yes (No (Depth (inches): Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:Road rut pool with surface water present at time of survey. Spadefoot toad tadpoles (B13) present.

US Army Corps of Engineers

Project/Site: TL-649 Otay-San Ysidro Border Wood to S	Steel	City/Coun	ity: Chula Vis	sta/San Diego	Sampling Date:	05/22/2014		
Applicant/Owner: San Diego Gas & Electric State: CA Sampling Point: 3								
Investigator(s): Michael Nieto, Cailin O'Meara Section, Township, Range: Otay Mesa quad, Otay (Estudillo) land grant								
Landform (hillslope, terrace, etc.): Outer floodlplain terra	ace	Local rel	ief (concave,	convex, none): Convex	Slop	e (%): <u>0%</u>		
Subregion (LRR): LRR-C	Lat:	32°35'31.14"	N	Long: 116°57'24.88"W	Datum	n: <u>NAD-83</u>		
Soil Map Unit Name: Diablo clay				NWI classification	n: Palustrine			
Are climatic / hydrologic conditions on the site typical for	r this time of	f year? Yes	x No	o(If no, explain in I	Remarks.)			
Are Vegetation, Soil, or Hydrology	signif	icantly disturb	ed? No	Are "Normal Circumstances	s" present? Yes	_x No		
Are Vegetation, Soil, or Hydrology	natura	ally problema	tic? No	(If needed, explain any ans	wers in Remarks	i .)		
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poi	nt locations	s, transects, important	features, etc.			
Hydrophytic Vegetation Present? Yes x	No	le th	ne Sampled	Aroa				
Hydric Soil Present? Yes x	No		nin a Wetlan	Yes x	No			
Wetland Hydrology Present? Yesx	No	_						
Remarks: Sampling point located within emergent ma VEGETATION – Use scientific names of plants								
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works				
1.	70 OOVCI	Орсско:	Otatus	Number of Dominant Spe That Are OBL, FACW, or		1 (A)		
2.				Total Number of Domina	-	(/ //		
3.				Species Across All Strata	a:	1 (B)		
4.		= Total Cove	er	Percent of Dominant Spe That Are OBL, FACW, or		00% (A/B)		
Sapling/Shrub Stratum (Plot size:)								
1				Prevalence Index work	sheet:			
2				Total % Cover of:	Multipl	ly by:		
3				OBL species	x 1 =			
4				FACW species	x 2 =			
5				FACULTARIA	x 3 =			
Herb Stratum (Plot size:)		= Total Cove	er	FACU species UPL species	x 4 = x 5 =			
1. Elymus triticoides	90	Yes	FAC	Column Totals:	(A)	(B)		
Rumex crispus	2	No	FAC					
3. Bromus diandrus		N0	UPL	Prevalence Index	c = B/A =			
4. Bromus hordaceous	1	No	FACU	Hydrophytic Vegetation	n Indicators:			
5.				x Dominance Test is				
6.				Prevalence Index i				
7.				Morphological Ada	aptations ¹ (Provid	le supporting		
8.				data in Remark	s or on a separat	te sheet)		
Woody Vine Stratum (Plot size:	94%	= Total Cov	/er	Problematic Hydro	phytic Vegetation	n¹ (Explain)		
1				¹ Indicators of hydric soil be present, unless distu				
	ver of Biotic	= Total Cove	er	Hydrophytic Vegetation Present? Ye	<u> </u>			
Remarks:				1				

Redox Features

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

Depth

Matrix

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	5 YR 3/2	90	2.5 YR 4/6	10	С	PL	Silty clay loar	n
7-18	5 YR 2.5/1	100			_	-	Clay loam	
			·		· ——			-
			·					
	<u> </u>	-	·				_	<u> </u>
		_			· ———			- -
¹ Type: C=C	oncentration D=Depletic	n RM=Red	uced Matrix, CS=Covere	d or Coated	Sand Grain	<u> </u>	2l ocation: Pl =Por	e Lining, RC=Root Channel, M=Matrix.
			LRRs, unless other			<u>. </u>		for Problematic Hydric Soils ³ :
•	ol (A1)			Redox (S5	•			luck (A9) (LRR C)
	Epipedon (A2)			l Matrix (S				luck (A10) (LRR B)
Black	Histic (A3)			Mucky Mir			Reduce	ed Vertic (F18)
Hydro	gen Sulfide (A4)		Loamy (Gleyed Ma	atrix (F2)		Red Pa	rent Material (TF2)
	ed Layers (A5) (LRR	C)	x Deplete				Other (Explain in Remarks)
	Muck (A9) (LRR D)	(Δ44)		Dark Surfa	` '			
	ted Below Dark Surfa Dark Surface (A12)	ce (ATT)		u Dark Su Depressio	rface (F7)		3Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)			Pools (F9)				hydrology must be present,
	Gleyed Matrix (S4)			00.0 (1 0)				disturbed or problematic.
	Layer (if present):						1	·
Type:	Layer (ii present).							
Depth (in	iches).						Hydric Soil Pre	esent? Yes x No
Depti (iii							Trydric Coll 1 10	23CH: 1C3 X 1V0
HYDROLC	OGY							
Wetland H	Hydrology Indicators	s:					Sec	ondary Indicators (2 or more required)
Primary In	dicators (minimum of	one require	ed; check all that appl	y)				Water Marks (B1) (Riverine)
Surfac	ce Water (A1)		Salt Crus	t (B11)				Sediment Deposits (B2) (Riverine)
High V	Vater Table (A2)		Biotic Cru	ust (B12)				Drift Deposits (B3) (Riverine)
Satura	ation (A3)		Aquatic I	nvertebrat	es (B13)			Drainage Patterns (B10)
Water	Marks (B1) (Nonrive	rine)	Hydroger	n Sulfide C	Odor (C1)			Dry-Season Water Table (C2)
Sedim	nent Deposits (B2) (N	onriverine			eres along	_		Thin Muck Surface (C7)
	eposits (B3) (Nonriv	erine)	x Presence		•	•		Crayfish Burrows (C8)
	ce Soil Cracks (B6)				tion in Tille	d Soils (C		Saturation Visible on Aerial Imagery (C9)
	ation Visible on Aerial		· —	k Surface				Shallow Aquitard (D3)
Water	-Stained Leaves (B9)		Other (Ex	cplain in R	emarks)			FAC-Neutral Test (D5)
Field Obse	ervations:							
Surface Wa	ater Present?	Yes	No x Depth (inc	hes):				
Water Tabl	e Present?	Yes	No x Depth (inc	hes):				
Saturation (includes ca	Present? apillary fringe)	Yes	No x Depth (inc	hes):		Wetla	and Hydrology	Present? Yes x No
Describe Re	ecorded Data (stream	gauge, mo	onitoring well, aerial ph	notos, prev	vious inspe	ctions), if	available:	
Domortica								
Remarks:								

Project/Site: TL-649 Otay San Ysidro Border Wood	to Steel	City/Coi	unty: <u>Chula V</u> 1	sta/San Diego	Saı	npling Date:	03/20/2015
Applicant/Owner: San Diego Gas & Electric		State:CA Sampling Point:4					
Investigator(s):Ian Maunsell, Christina Congedo		Section	, Township, Ra	nge:Otay Mesa q	uad, Otay	(Estudillo)	land grant
Landform (hillslope, terrace, etc.): Mesa		Local r	elief (concave,	convex, none):Con	ncave	Sle	ope (%):0
Subregion (LRR):C - Mediterranean California	Lat:32.5	59168		Long:-116.9567	6	 Dat	um:NAD-83
Soil Map Unit Name: Diablo clay				_		 n:Palustrine	
Are climatic / hydrologic conditions on the site typical for the	nis time of ve	ear? Yes	s (No (
Are Vegetation Soil or Hydrology	significantly			"Normal Circumstar			No (
Are Vegetation Soil or Hydrology	naturally pro			eeded, explain any			, 110
_							
SUMMARY OF FINDINGS - Attach site map	showing	samp	ling point l	ocations, trans	ects, im	portant te	eatures, etc.
Hydrophytic Vegetation Present? Yes	No 💿						
Hydric Soil Present? Yes Yes	No 🔘	ı	s the Sample	d Area			
	No 💮		within a Wetla			No 💿	
Remarks:Sparse facultative vegetation present with sampled due to high potential for San Die vernal pool complex and no vernal pool i	go fairy sh	nrimp aı	nd nearby we	t meadow. Road 1			
VEGETATION							
	Absolute		ant Indicator	Dominance Test	t workshe	et:	
Tree Stratum (Use scientific names.)			s? Status	Number of Domir			
1.None		No		That Are OBL, F	ACW, or F	AC:	0 (A)
2				Total Number of			(D)
3				Species Across A	All Strata:		0 (B)
4Total Cov	er: 0 %			Percent of Domir			O a (A/D)
Sapling/Shrub Stratum	CI. 0 /0			That Are OBL, FA	ACVV, OI FA	4C.	0 % (A/B)
1. <i>None</i>	0	No		Prevalence Inde			
2				Total % Cov	er of:	Multip	
3				OBL species		x 1 =	0
4				FACW species	1	x 2 =	0
5				FAC species FACU species	1	x 3 = x 4 =	3
Total Covi	er: 0 %			UPL species		x 4 = x 5 =	0
1.Distichilis spicata	1	No	FAC	Column Totals:	1	(A)	3 (B)
2.				_ Column Totals.	1	(A)	<i>5</i> (D)
3.	_			Prevalence	Index = B	/A =	3.00
4.				Hydrophytic Ve	_		
5.				Dominance ⁻			
6				× Prevalence I			
7				Morphologica		ons' (Provide on a separat	
8.				Problematic		-	•
Woody Vine Stratum	er: 1 %					· ·	` ' '
1.None	0	No		¹ Indicators of hyd	dric soil ar	d wetland h	ydrology must
2.	_	1		be present.			
Total Cov	er: 0 %			Hydrophytic			
% Bare Ground in Herb Stratum 99 % % Cov	er of Biotic C	Crust	0 %	Vegetation Present?	Yes (No (
Remarks: Sampling conducted within a road rut po conditions due to local relief and surrou			-		ominate a	rea in undis	sturbed

SOIL Sampling Point: 4 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Loc² Texture (inches) Color (moist) Color (moist) ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (**LRR C**) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (**LRR D**) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) ³Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No (Yes 🕡 Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils assumed due to strong hydrology indicators. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) ★ Saturation (A3) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Shallow Aguitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Yes (No (Surface Water Present? Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Yes (No (•) Depth (inches): Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Road rut pool with surface soil cracks present.

US Army Corps of Engineers

Project/Site: TL-649 Otay-San Ysidro Border Wood to S	Steel	City/County: Chula Vis	sta/San Diego	Sampling Date: 05/22/2014
Applicant/Owner: San Diego Gas & Electric			State: CA	Sampling Point: 5
Investigator(s): Michael Nieto, Cailin O'Meara		Section, Township, R	Range: Otay Mesa quad, C	otay (Estudillo) land grant
Landform (hillslope, terrace, etc.): Mesa		Local relief (concave	, convex, none): Convex	Slope (%): 0
Subregion (LRR): LRR-C	Lat:	32°35'31.88"N	Long: 116°57'18.75"W	Datum: NAD-83
Soil Map Unit Name: Diablo clay			NWI classification	n: Palustrine
Are climatic / hydrologic conditions on the site typical for	this time of	year? Yes x No	o(If no, explain in F	Remarks.)
Are Vegetationx,Soil, or Hydrology	signifi	cantly disturbed? Yes	Are "Normal Circumstances	" present? Yes x No
Are Vegetation, Soil, or Hydrology	natura	ally problematic? No	(If needed, explain any answ	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sa	mpling point location	s, transects, important	features, etc.
Hydrophytic Vegetation Present? Yesx	No	lo the Compled	Araa	
Hydric Soil Present? Yes x	No	Is the Sampledwithin a Wetlan	YAS Y	No
Wetland Hydrology Present? Yesx	No	_	u.	
Remarks: Vegetation significantly disturbed from acco	ess road.	J.		
VEGETATION II				
VEGETATION – Use scientific names of plants	Absolute	Dominant Indicator	Dominance Test works	hoot
<u>Tree Stratum</u> (Plot size:	% Cover	Species? Status	Number of Dominant Spe	
1.			That Are OBL, FACW, or	
2.			Total Number of Dominar	
3.			Species Across All Strata	(D)
4		-	Percent of Dominant Spe That Are OBL, FACW, or	
	0	= Total Cover	That Aic Obe, I Aov, of	1740. <u>10070</u> (100)
Sapling/Shrub Stratum (Plot size:)				
1			Total % Cover of:	
2. 3.			OBL species	Multiply by: x 1 =
4.			FACW species	x 2 =
5.			FAC species	x 3 =
J	0	= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size:)		. 5 (6)	UPL species	x 5 =
Polypogon monspeliensis	1	N FACW	Column Totals:	(A) (B)
2. Festuca perennis	5	Y FAC	Provalence Index	= B/A =
3.			Frevalence index	- b/A
4.			Hydrophytic Vegetation	Indicators:
5.			x Dominance Test is	>50%
6			Prevalence Index is	s ≤3.0 ¹
7. 8.				ptations ¹ (Provide supporting s or on a separate sheet)
	6	= Total Cover	Problematic Hydro	phytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)				
1			¹ Indicators of hydric soil	and wetland hydrology must
2			be present, unless distu	rbed or problematic.
	0	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum 94 % Cov	ver of Biotic	Crust 0	Vegetation Present? Yes	s x No
			100	
Remarks: Sampling was conducted in a vernal pool with	iiii an acces	ss road.		

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matri	<u>ix</u>		edox Features % Type ¹	Loc ²	Toyturo	Pomorko			
(inches)	Color (moist)	<u> </u>	Color (moist)	% Type ¹	LUC	Texture	Remarks			
				·						
-				· ——— —						
				·						
-				·						
				·						
				d or Coated Sand Grains.			ning, RC=Root Channel, M=Matrix.			
Hydric Soi	I Indicators: (App	olicable to all LF	RRs, unless othe	rwise noted.)		Indicators for	Problematic Hydric Soils ³ :			
Histoso	ol (A1)		Sandy	Redox (S5)		1 cm Mucl	k (A9) (LRR C)			
Histic E	pipedon (A2)		Strippe	d Matrix (S6)		2 cm Mucl	k (A10) (LRR B)			
Black F	Histic (A3)		Loamy	Mucky Mineral (F1)		Reduced \	Vertic (F18)			
Hydrog	en Sulfide (A4)		Loamy	Gleyed Matrix (F2)		Red Parer	nt Material (TF2)			
	ed Layers (A5) (LR	RC)	Deplete	d Matrix (F3)		Other (Exp	olain in Remarks)			
1 cm M	luck (A9) (LRR D)		Redox	Dark Surface (F6)						
Deplete	ed Below Dark Sur	face (A11)	Deplete	d Dark Surface (F7)		_				
	Oark Surface (A12)			Depressions (F8)			nydrophytic vegetation and			
	Mucky Mineral (S1		x Vernal	Pools (F9)		-	drology must be present,			
Sandy	Gleyed Matrix (S4)				unless dist	urbed or problematic.			
Restrictive	Layer (if present):								
Type:										
Depth (inc	ches):				Hv	dric Soil Prese	nt? Yes x No			
HYDROLO	CV									
HYDROLO Wetland H	ydrology Indicate	ors.				Secon	dary Indicators (2 or more required			
	dicators (minimum		check all that ann	lv)			ater Marks (B1) (Riverine)			
	e Water (A1)	or one required,	Salt Crus				diment Deposits (B2) (Riverine)			
	/ater Table (A2)			ust (B12)			ft Deposits (B3) (Riverine)			
	` ,			, ,						
	tion (A3)	· · · · · · · · · · · · · · · ·		nvertebrates (B13)			ainage Patterns (B10)			
	Marks (B1) (Nonri			n Sulfide Odor (C1)			/-Season Water Table (C2)			
	ent Deposits (B2) (. ,		Rhizospheres along L	ving Roots	` ′	in Muck Surface (C7)			
	eposits (B3) (Nonr			e of Reduced Iron (C4)	0-:1- (00)		ayfish Burrows (C8)			
	e Soil Cracks (B6)			ron Reduction in Tilled	Solis (Cb)		turation Visible on Aerial Imagery (C9			
	tion Visible on Aer	3 , , ,		ck Surface (C7)			allow Aquitard (D3)			
Water-	Stained Leaves (B	19)	Other (E	xplain in Remarks)		FA	C-Neutral Test (D5)			
Field Obser	rvations:									
Surface Wa	ter Present?	Yes N	No x Depth (inc	ches):	_					
Water Table	Present?	Yes N	No x Depth (inc	:hes):	_					
Saturation F	Present?	Yes N	No x Depth (inc	:hes):	Wetland	Hydrology Pr	esent? Yes x No			
	pillary fringe)									
Describe Red	corded Data (strea	ım gauge, monite	oring well, aerial p	hotos, previous inspect	ions), if avai	ilable:				
Remarks:										

Project/Site: TL-649 Otay-San Ysidro Border Wood to	Steel	City/County: Chula V	ista/San Diego S	Sampling Date: 05/22/2014					
Applicant/Owner: San Diego Gas & Electric			State: CA S	Sampling Point: 6					
Investigator(s): Michael Nieto, Cailin O'Meara		Section, Township,	Range: Otay Mesa quad, Ot	ay (Estudillo) land grant					
Landform (hillslope, terrace, etc.): Mesa		Local relief (concave	e, convex, none): Convex	Slope (%): 0					
Subregion (LRR): LRR-C	Lat:	32°35'42.62"N	Long: 116°56'49.16"W	Datum: NAD-83					
Soil Map Unit Name: Olivenhain cobbly loam			NWI classification:						
Are climatic / hydrologic conditions on the site typical for	or this time of	f year? Yes x N	 √o (If no, explain in R	emarks.)					
Are Vegetation x, Soil , or Hydrology									
Are Vegetation , Soil , or Hydrology									
SUMMARY OF FINDINGS – Attach site map s	howing sa	mpling point location	ns, transects, important f	eatures, etc.					
Hydrophytic Vegetation Present? Yes x	No								
Hydric Soil Present? Yes x	No	Is the Sampled within a Wetla	YAS	No x					
Wetland Hydrology Present? Yes x	No	— within a wetta	nur ——						
Remarks: Vegetation is lacking due to disturbance from access road. Hydrophytic vegetation assumed due to prevalence of hydrophytic vegetation in nearby undisturbed vernal pools.									
VEGETATION – Use scientific names of plant	S. Absolute	Dominant Indicator	Dominance Test worksh	ooti					
<u>Tree Stratum</u> (Plot size:) 1.	% Cover		 Number of Dominant Spec That Are OBL, FACW, or f 	cies					
2			Total Number of Dominant Species Across All Strata:	t					
			Percent of Dominant Spec	(D)					
T	0	= Total Cover	That Are OBL, FACW, or F						
Sapling/Shrub Stratum (Plot size:)	-								
1.			Prevalence Index worksl	heet:					
2.			Total % Cover of:	Multiply by:					
3			OBL species	x 1 =					
4			FACW species	x 2 =					
5	<u> </u>		FAC species						
	0	= Total Cover	FACU species	x 4 =					
Herb Stratum (Plot size:)			UPL species	x 5 =					
1.			Column Totals:	(A)(B)					
2. 3.			Prevalence Index =	= B/A =					
4.			Hydrophytic Vegetation	Indicators:					
5.			Dominance Test is						
6.	· 		Prevalence Index is						
7 8.			Morphological Adap	otations ¹ (Provide supporting or on a separate sheet)					
	0	= Total Cover	=	hytic Vegetation ¹ (Explain)					
Woody Vine Stratum (Plot size:)			1						
1. 2.			Indicators of hydric soil a be present, unless disturb	and wetland hydrology must bed or problematic.					
	0	= Total Cover	Hydrophytic Vegetation						
	over of Biotic		Present? Yes						
Remarks: Sampling was conducted in a vernal pool wi	thin an acce	ss road. Hydrophytic veg	etation assumed based on ne	arby undisturbed vernal pools.					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix			dox Featur			<u> </u>			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> %	Type ¹	Loc²	Texture	Remarks		
							_	·		
							<u> </u>			
							_			
								·		
1	tti D-Dl-ti	- DM-Dadus	ed Matrix, CS=Covered			_ 2	2	Lining, RC=Root Channel, M=Matrix.		
			RRs, unless other			5.		or Problematic Hydric Soils ³ :		
Histosol		abic to all L		Redox (S5)	,			ck (A9) (LRR C)		
	ipedon (A2)			Matrix (S6)			ck (A3) (LRR B)		
Black His				Nucky Mine				Vertic (F18)		
	n Sulfide (A4)			Gleyed Mat				ent Material (TF2)		
	Layers (A5) (LRR	C)		d Matrix (F3				xplain in Remarks)		
	ck (A9) (LRR D)	,	Redox D	ark Surfac	é (F6)		`	,		
Depleted	Below Dark Surfa	ce (A11)	Deplete	d Dark Surf	ace (F7)					
	rk Surface (A12)			epressions	s (F8)			hydrophytic vegetation and		
	ucky Mineral (S1)		_x_Vernal F	Pools (F9)				ydrology must be present,		
Sandy G	leyed Matrix (S4)						unless di	sturbed or problematic.		
Restrictive L	ayer (if present):									
Type:										
Depth (inch	es):						Hydric Soil Pres	ent? Yes x No		
Remarks: No	soil nit was dug di	ie to the doci	mented presence	of San Dieg	n fairy shr	rimp Hvd	ric soils were ass	umed due to strong hydrology		
indicators.	oon pit trae dag a	20 10 11.0 0001	o	ca 2.0g				amou duo to chong ny aronogy		
HYDROLOG	v									
	drology Indicators						Seco	ndary Indicators (2 or more required)		
_			; check all that appl	W				/ater Marks (B1) (Riverine)		
	,	one required	Salt Crus					ediment Deposits (B2) (Riverine)		
	Water (A1)		Biotic Cru					rift Deposits (B3) (Riverine)		
	iter Table (A2)			` ,	o (D12)			. , , , ,		
Saturatio	arks (B1) (Nonrive	rino\		nvertebrate: Sulfide Od	, ,			rainage Patterns (B10) ry-Season Water Table (C2)		
	nt Deposits (B2) (N		, ,	Rhizosphei	` '	Livina Do		hin Muck Surface (C7)		
	osits (B3) (Nonriv	•		of Reduce		J		rayfish Burrows (C8)		
	Soil Cracks (B6)	ei ii ie)		on Reduction	•	•		aturation Visible on Aerial Imagery (C9)		
	on Visible on Aerial	Imagany (P7				J Solis (C				
		3 , ,		k Surface (hallow Aquitard (D3)		
vvaler-s	tained Leaves (B9)		Other (Ex	plain in Re	marks)		<u> </u>	AC-Neutral Test (D5)		
Field Observ	ations:									
Surface Water	er Present?	Yes	No x Depth (inc	nes):		_				
Water Table I	Present?	Yes	No x Depth (inc	nes):		_				
Saturation Pro		Yes	No x Depth (inc	nes):		Wetla	and Hydrology F	resent? Yes x No		
(includes cap						\				
Describe Reco	orded Data (stream	gauge, monit	toring well, aerial ph	otos, previ	ous insped	ctions), if	available:			
Remarks:										

Project/Site: TL-649 Otay-San Ysidro Border Wood to	Project/Site: TL-649 Otay-San Ysidro Border Wood to Steel City/County: Chula Vista/San Diego Sampling Date: 05/22/2014									
Applicant/Owner: San Diego Gas & Electric			State: CA Sampling Point: 7							
Investigator(s): Michael Nieto, Cailin O'Meara		Section, Township, R	ange: Otay Mesa quad, Otay (Estudillo) land grant							
Landform (hillslope, terrace, etc.): Mesa	convex, none): Convex Slope (%): 0									
Subregion (LRR): LRR-C	Lat:	32°35'47.10"N	Long: <u>116°56'43.18"W</u> Datum: <u>NAD-83</u>							
Soil Map Unit Name: Olivenhain cobbly loam			NWI classification: Palustrine							
Are climatic / hydrologic conditions on the site typical fo	r this time of	year? Yes <u>x</u> No	o(If no, explain in Remarks.)							
Are Vegetation x, Soil , or Hydrology	signifi	cantly disturbed? Yes	Are "Normal Circumstances" present? Yes x No							
Are Vegetation, Soil, or Hydrology	natura	ally problematic? No ((If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map sl	nowing sa	mpling point locations	s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes x	No									
Hydric Soil Present? Yes x	No	Is the Sampled	Yes X No							
Wetland Hydrology Present? Yes x	No	within a Wetland	ur <u> </u>							
Remarks: Vegetation is lacking due to disturbance from access road. Hydrophytic vegetation assumed due to prevalence of hydrophytic vegetation in nearby undisturbed vernal pools. VEGETATION – Use scientific names of plants.										
VEGETATION – Ose scientific flames of plants	Absolute	Dominant Indicator	Dominance Test worksheet:							
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species							
1			That Are OBL, FACW, or FAC: 0 (A)							
2			Total Number of Dominant							
3.			Species Across All Strata: 0 (B)							
4			Percent of Dominant Species That Are OBL, FACW, or FAC: 0(A/B)							
	0	= Total Cover								
Sapling/Shrub Stratum (Plot size:)			Duavelence Index weather est.							
1			Prevalence Index worksheet: Total % Cover of: Multiply by:							
2. 3.			OBL species x 1 =							
			FACW species x 2 =							
5.			FAC species x 3 =							
o	0	= Total Cover	FACU species x 4 =							
Herb Stratum (Plot size:)		. 5.6 5575.	UPL species x 5 =							
1.			Column Totals: (A) (B)							
2.			Prevalence Index = B/A =							
3.			Trevalence index = D/A =							
4			Hydrophytic Vegetation Indicators:							
5			Dominance Test is >50%							
6			Prevalence Index is ≤3.0 ¹							
7			Morphological Adaptations ¹ (Provide supporting							
8			data in Remarks or on a separate sheet)							
Woody Vine Stratum (Plot size:)	0	= Total Cover	x Problematic Hydrophytic Vegetation ¹ (Explain)							
1			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
	0	= Total Cover	Hydrophytic Vegetation							
	over of Biotic		Present? Yes x No tation assumed based on nearby undisturbed vernal pools.							
nemarks. Sampling was conducted in a vernal pool wil	unin an acce	ss гоац. пуцгорпуцс veget	tation assumed based on nearby undisturbed vernal pools.							

Redox Features

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

Depth

Matrix

(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type	Loc²	Texture	Remarks
								<u> </u>
¹ Type: C=Cor	ncentration, D=Depletion	RM=Reduc	ed Matrix CS=Covered	or Coated	Sand Grain	s 2	l ocation: PI =P	ore Lining, RC=Root Channel, M=Matrix.
	Indicators: (Applica					<u>. </u>		s for Problematic Hydric Soils ³ :
Histoso					-			Muck (A9) (LRR C)
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)								Muck (A10) (LRR B)
	listic (A3)			/lucky Min				ced Vertic (F18)
	en Sulfide (A4)			Gleyed Ma				Parent Material (TF2)
	d Layers (A5) (LRR C	:)		d Matrix (F				(Explain in Remarks)
	uck (A9) (LRR D)	,		ark Surfa	,			(,
	d Below Dark Surface	e (A11)		d Dark Sur	` '			
	ark Surface (A12)			epression	, ,		3Indicators	s of hydrophytic vegetation and
Sandy N	Mucky Mineral (S1)		x Vernal P	ools (F9)				nd hydrology must be present,
Sandy 0	Gleyed Matrix (S4)		' <u></u> '				unless	s disturbed or problematic.
Restrictive	Layer (if present):							
Type:	Layer (ii present).							
	.hoo):						Undria Cail D	Propert? Ves v No
Depth (inc	s).		<u> </u>				Hydric Soil P	Present? Yes x No No
HYDROLOG	GV.							
_	ydrology Indicators:			۸			<u> 36</u>	econdary Indicators (2 or more required)
	icators (minimum of c	ne required						Water Marks (B1) (Riverine)
	e Water (A1)		Salt Crus	. ,				_ Sediment Deposits (B2) (Riverine)
	ater Table (A2)		Biotic Cru					Drift Deposits (B3) (Riverine)
	ion (A3)			nvertebrate				_Drainage Patterns (B10)
	Marks (B1) (Nonriver			Sulfide O			_	_Dry-Season Water Table (C2)
	ent Deposits (B2) (No	,		•	eres along	_	ots (C3)	_Thin Muck Surface (C7)
	eposits (B3) (Nonrive	rine)			ed Iron (C4	,		_ Crayfish Burrows (C8)
	Soil Cracks (B6)				ion in Tille	d Soils (Co	6)	_ Saturation Visible on Aerial Imagery (C9)
Inundat	tion Visible on Aerial I	magery (B7) Thin Muc	k Surface	(C7)			_Shallow Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)			_FAC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat		es	No x Depth (incl	nes):				
Water Table			No x Depth (incl			_		
Saturation P			No x Depth (incl			— Wetla	and Hydrolog	y Present? Yes x No
	pillary fringe)		NO X Depti (inci			_ '' '	and Hydrolog	103 <u>x</u> 100
	corded Data (stream g	auge, moni	toring well, aerial ph	otos, prev	ious inspe	ctions), if	available:	
	(. 5,	J , F	, p	-	,,		
Remarks:								

Project/Site: TL-649 Otay-San Ysidro Border Wood to	Steel	City/County: Chula Vis	ta/San Diego S	ampling Date: 05/22/2014
Applicant/Owner: San Diego Gas & Electric			State: CA S	ampling Point: 8
Investigator(s): Michael Nieto, Cailin O'Meara		Section, Township, R	ange: Otay Mesa quad, Ot	ay (Estudillo) land grant
Landform (hillslope, terrace, etc.): Mesa		Local relief (concave,	convex, none): Convex	Slope (%): 0
Subregion (LRR): Otay Valley Hydrologic Area	Lat:		· · · · · · · · · · · · · · · · · · ·	
Soil Map Unit Name: Olivenhain cobbly loam			NWI classification:	
Are climatic / hydrologic conditions on the site typical for	or this time of	f vear? Yes x No		-
Are Vegetationx,Soil, or Hydrology _				
Are Vegetation, Soil, or Hydrology				
SUMMARY OF FINDINGS – Attach site map s	showing sa	mpling point locations	s, transects, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes x	No			
Hydric Soil Present? Yes x	No	Is the Sampled	YAS Y	No
Wetland Hydrology Present? Yes x	No	within a Wetland	a? ——	
Remarks: Vegetation is lacking due to disturbance fi	rom access re	oad. Hydrophytic vegetatio	n assumed due to prevalenc	e of hydrophytic vegetation in
nearby undisturbed vernal pools.		oud y d. op y d. o . o golddio	accamea ado to provatorio	o or rijar oprijao rogotaaon iii
VEGETATION – Use scientific names of plan				
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksh	
1.	70 00101	<u> </u>	Number of Dominant Spec That Are OBL, FACW, or F	
2.			Total Number of Dominant	`` ′
3.			Species Across All Strata:	
4.			Percent of Dominant Spec	ties
	0	= Total Cover	That Are OBL, FACW, or F	FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size:				
1.			Prevalence Index worksl	neet:
2			Total % Cover of:	Multiply by:
3			OBL species	x 1 =
4			FACW species	
5			FAC species	
	0	= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size:)			UPL species	x 5 =
1.			Column Totals:	(A)(B)
2.			Prevalence Index =	= B/A =
3.				
4			Hydrophytic Vegetation	
5.			Dominance Test is >	
6. 7.			Prevalence Index is	
8.				tations ¹ (Provide supporting or on a separate sheet)
o		= Total Cover		hytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:		- Total Gover	x Problematic Hydrop	nylic vegetation (Explain)
1			¹ Indicators of hydric soil a	and wetland hydrology must
2.			be present, unless disturb	ped or problematic.
	0	= Total Cover	Hydrophytic	
		10101 00701	Vegetation	
% Bare Ground in Herb Stratum 100 % C	over of Biotic	Crust 0	Present? Yes	x No
Remarks: Sampling was conducted in a vernal pool w	rithin an acce	ss road. Hydrophytic veget	ation assumed based on ne	arby undisturbed vernal pools.

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

Depth	Matrix	•	Re	dox Featu	ires			•			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	re Remarks			
_	_		_		_	_		·			
							_	· · · · · · · · · · · · · · · · · · ·	_		
				-			_	·	—		
							_				
							_		—		
							_		—		
¹ Type: C=Cor	ncentration, D=Depletion,	RM=Reduced	Matrix, CS=Covered	or Coated	Sand Grain	s. ²	Location: PL=F	Pore Lining, RC=Root Channel, M=Matrix.			
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless other	wise note	ed.)		Indicato	ors for Problematic Hydric Soils ³ :			
Histosol	(A1)		Sandy F	Redox (S5))		1 cm	m Muck (A9) (LRR C)			
Histic E	pipedon (A2)		Stripped	Matrix (S	6)		2 cm	m Muck (A10) (LRR B)			
Black Histic (A3)				∕lucky Min				duced Vertic (F18)			
	en Sulfide (A4)			Sleyed Ma				d Parent Material (TF2)			
	d Layers (A5) (LRR C)		d Matrix (F	,		Othe	er (Explain in Remarks)			
	uck (A9) (LRR D)	(8.4.4)		ark Surfa	` ,						
	d Below Dark Surface	(ATT)			rface (F7)		31	and at his discussion to the constant are and			
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)			x Vernal F	epression	is (F8)			ors of hydrophytic vegetation and and and hydrology must be present,			
	Gleyed Matrix (S4)		_X_veillair	0015 (1 9)				ss disturbed or problematic.			
							unics	33 distarbed of problematic.			
_	Layer (if present):										
Type:			_								
Depth (incl	nes):		_				Hydric Soil I	Present? Yes x No No	-		
Remarks: N	o soil pit was dug due	to the docur	nented presence of	of San Die	go fairy sh	rimp. Hyd	ric soils were	e assumed due to strong hydrology			
indicators.											
HYDROLOG	GY .										
Wetland Hy	drology Indicators:						S	Secondary Indicators (2 or more require	ed)		
_	cators (minimum of o	ne required: (check all that appl	v)			Water Marks (B1) (Riverine)				
	Water (A1)	1 /	Salt Crus					Sediment Deposits (B2) (Riverine)			
	ater Table (A2)		Biotic Cru				_	Drift Deposits (B3) (Riverine)			
Saturati			Aquatic Ir	` '	es (B13)		Drainage Patterns (B10)				
	//arks (B1) (Nonriveri	ne)	Hydroger				Dry-Season Water Table (C2)				
	nt Deposits (B2) (Nor				eres along	Living Po					
	posits (B3) (Nonriver				ed Iron (C	•	Crayfish Burrows (C8)				
	Soil Cracks (B6)	ii ie)			tion in Tille		-6)		201		
	ion Visible on Aerial Ir	nagon/(P7)	Thin Muc			u oolis (o		· —			
	Stained Leaves (B9)	ilagely (b1)	Other (Ex				_	Shallow Aquitard (D3) FAC-Neutral Test (D5)			
vvaler-c	blailled Leaves (D9)		Other (L)	piaiii iii iX	ciliaiks)		_	TAC-Neutral Test (D3)			
Field Obser											
Surface Wat	er Present? Ye		o <u>x</u> Depth (incl								
Water Table			o x Depth (incl								
Saturation P		esN	o x Depth (incl	nes):		Wetla	and Hydrolo	ogy Present? Yes x No	_		
(includes cap			ما ما المساور المساور المساور			-4:\ if	aailabla.				
Describe Rec	orded Data (stream g	auge, monito	ring well, aerial pr	otos, prev	lious inspe	ctions), if	avallable:				
Remarks:											

Project/Site: TL-649 Otay-San Ysidro Border Wood to	Steel	City/Cou	nty: Chula Vis	sta/San Diego	_Sampling Date:	05/22/2014			
Applicant/Owner: San Diego Gas & Electric				State: CA	_Sampling Point:	9			
Investigator(s): Michael Nieto, Cailin O'Meara		Section	, Township, F	Range: Otay Mesa quad,	Otay (Estudillo) la	and grant			
Landform (hillslope, terrace, etc.): Terrace		Local re	elief (concave	, convex, none): Convex	Slop	oe (%): 0			
Subregion (LRR): LRR-C	Lat:	32°35'48.12'	"N	Long: 116°56'40.19"W	Datur	n: <u>NAD-83</u>			
Soil Map Unit Name: Olivenhain cobbly loam				NWI classificati	on: Palustrine				
Are climatic / hydrologic conditions on the site typical fo	r this time of	year? Yes	s <u>x</u> No	o(If no, explain ir	າ Remarks.)				
Are Vegetation, Soil, or Hydrology	signifi	cantly distur	bed? No	Are "Normal Circumstance	es" present? Yes	xNo			
Are Vegetation, Soil, or Hydrology	natura	ally problema	atic? No	(If needed, explain any an	swers in Remarks	š.)			
SUMMARY OF FINDINGS – Attach site map sl	nowing sa	mpling poi	int location	s, transects, importar	nt features, etc.				
Hydrophytic Vegetation Present? Yes x	No								
Hydric Soil Present? Yes x	No		he Sampled	YAS	x No				
Wetland Hydrology Present? Yes x	No	•••••	within a Wetland?						
Remarks: Sampling point is located within emergent VEGETATION – Use scientific names of plants									
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test work					
1.	70 COVE	Species?	Status	Number of Dominant S That Are OBL, FACW,		1 (A)			
2.				Total Number of Domin Species Across All Stra	nant	, , ,			
4.				Percent of Dominant Sp		(B)			
Sapling/Shrub Stratum (Plot size:)		= Total Cov	er	That Are OBL, FACW,		100% (A/B)			
1.				Prevalence Index wor	ksheet:				
2.			-	Total % Cover of:	Multip	oly by:			
3.				OBL species	x 1 =				
4.				FACW species	x 2 =				
5.				FAC species	x 3 =				
		= Total Cov	er	FACU species	x 4 =				
Herb Stratum (Plot size:)				UPL species	x 5 =				
1. Juncus effusus	65	Yes	FACW	Column Totals:	(A)	(B)			
2. Bromus madritensis	2	No	UPL	Prevalence Inde	ex = B/A =				
3. Bromus diandrus 4.	1	No	UPL	Hydrophytic Vegetation	on Indicators:				
5.			· 	x Dominance Test					
6	-	-		Prevalence Index					
7. 8.				Morphological Ac	daptations¹ (Provid rks or on a separa				
	68%	= Total Co	ver		rophytic Vegetatio				
Woody Vine Stratum (Plot size:) 1				¹ Indicators of hydric so be present, unless dis	oil and wetland hy	drology must			
2					turbed or problem	auc.			
% Bare Ground in Herb Stratum32% % Co	ver of Biotic	= Total Cov	er	Hydrophytic Vegetation Present? Y	′es <u>x</u> No)			
Remarks:									

Depth	cription: (Describe to Matrix			dox Featu				-	•	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure	Remarks	
0	5 YR 3/1	98 2.	5 YR 4/8	2	С	PL	Silty clay	/ loam	See remarks below	
	_			-						
	-									
¹ Type: C=Co	oncentration, D=Depletion	n, RM=Reduced	Matrix, CS=Covered	or Coated	Sand Grains).	² Location: PL	=Pore L	ining, RC=Root Channel, M=Matrix.	
Hydric So	il Indicators: (Applic	able to all LR	Rs, unless other	wise note	d.)		Indica	tors fo	r Problematic Hydric Soils ³ :	
Histose	ol (A1)		Sandy F	Redox (S5)	1		1	m Muc	k (A9) (LRR C)	
Histic I	Histic Epipedon (A2)			Matrix (S	6)		2	m Muc	k (A10) (LRR B)	
	Black Histic (A3)			Mucky Min	` '				Vertic (F18)	
	Hydrogen Sulfide (A4)			Loamy Gleyed Matrix (F2)					nt Material (TF2)	
	ed Layers (A5) (LRR	C)	_x_Depleted				Ot	her (Ex	plain in Remarks)	
	Muck (A9) (LRR D)	- (0.44)		Oark Surfa	` ,					
	ed Below Dark Surfac Dark Surface (A12)	e (ATT)		d Dark Sui			3Indioo	toro of	hydrophytic vogotation and	
	Mucky Mineral (S1)	Redox Depressions (F8) Vernal Pools (F9)					³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
	Gleyed Matrix (S4)		venian	0013 (1 3)				-	turbed or problematic.	
	Layer (if present):						1			
Type:	Layer (II present).									
Depth (in	oboo):		_				Hydric So	il Droop	ent? Yes x No	
IVDDOLO	nov.									
IYDROLO		_						C		
	lydrology Indicators		abaak all that anni						dary Indicators (2 or more require ater Marks (B1) (Riverine)	
	dicators (minimum of	one required, o							, , , , ,	
	e Water (A1)		Salt Crus				Sediment Deposits (B2) (Riverine)			
<u> </u>	Vater Table (A2)		Biotic Cru	` '	- (D40)				ift Deposits (B3) (Riverine)	
	ation (A3)	ina)		nvertebrate	. ,				ainage Patterns (B10)	
	Marks (B1) (Nonriver				Sulfide Odor (C1) hizospheres along Living Roots (C3)				y-Season Water Table (C2) in Muck Surface (C7)	
	ent Deposits (B2) (No				_	_	0018 (C3)		()	
	eposits (B3) (Nonrive	rine)	x Presence				26)		ayfish Burrows (C8)	
	e Soil Cracks (B6) ation Visible on Aerial	Imagany (P7)			ion in Tilled	1 SOIIS (C	(۵ر		turation Visible on Aerial Imagery (Citallow Aguitard (D2)	
	-Stained Leaves (B9)	iiiageiy (b <i>i)</i>		k Surface plain in R	' '				allow Aquitard (D3) C-Neutral Test (D5)	
	. ,		Other (E)	piaiii iii Ki	ciliaiks)			'		
Field Obse		/ NI	- Daniel Gran	l \ .						
			o x Depth (inc			_				
Water Table			o x Depth (inc			_	and Useder	locu D	recent? Ves u Ne	
Saturation I	Present? \\ apillary fringe)	es N	o x Depth (inc	nes):		_ weti	and Hydro	logy Pr	resent? Yes x No	
	corded Data (stream	gauge, monito	ring well, aerial ph	otos, prev	ious insped	ctions). if	available:			
	(J. 1 J. 1	3 - ,	,,,		,,				
Jamarka.										
Remarks:										
Remarks:										

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: Chula Vi	sta/San Diego	_Sampling Da	ate: <u>05/22/</u>	2014
Applicant/Owner: San Diego Gas & E	Electric				State: CA	_Sampling Po	oint: <u>10</u>	
Investigator(s): Michael Nieto, Cailin G	O'Meara		Section,	Township, F	Range: Otay Mesa quad,	Otay (Estudill	lo) land gra	nt
Landform (hillslope, terrace, etc.): Me	sa				e, convex, none): Convex	;	Slope (%):	0
Subregion (LRR): LRR-C		Lat:	32°35'49.84"	N	Long: 116°56'23.42"W	D	atum: NAD	-83
Soil Map Unit Name: Olivenhain cob	bly loam				NWI classification	on: Palustrine	Э	
Are climatic / hydrologic conditions on			-					
·					Are "Normal Circumstance			No
Are Vegetation, Soil	<u>,</u> or Hydrology _	natur	ally problemat	tic? No	(If needed, explain any an	swers in Rem	ıarks.)	
SUMMARY OF FINDINGS - Atta	ach site map s	howing sa	mpling poir	nt location	s, transects, importan	t features,	etc.	
Hydrophytic Vegetation Present?	Yes x	No						
Hydric Soil Present?	Yes x	No		ne Sampled	YAS	x No		
Wetland Hydrology Present?	Yes x	No	— with	nin a Wetlar	nd?			
Remarks: Vegetation significantly di								
remarks. Vegetation significantly di	sturbed from acc	ess Ioau.						
VEGETATION – Use scientific r	names of plant	ts.						
<u>Tree Stratum</u> (Plot size:	,	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work			
1.		70 OOVCI	Орсскоз:	Otatus	Number of Dominant Sport That Are OBL, FACW, or		2	(A)
2.			. ———	-	Total Number of Domin	_		('')
3.			· 		Species Across All Stra		2	(B)
4.					Percent of Dominant Sp			
		0	= Total Cove	er	That Are OBL, FACW, o	or FAC:	100%	(A/B)
Sapling/Shrub Stratum (Plot size:)		•					
1					Prevalence Index wor	ksheet:		
2					Total % Cover of:		fultiply by:	_
3.		= =	· 		OBL species			
4.				-	FACW species FAC species	x 2 = x 3 =		_
5		0	= Total Cove	ar.	FACU species	x4=		_
Herb Stratum (Plot size:)		- Total Cove	;1	UPL species			_
Polypogon monspeliensis		2	Υ	FACW	Column Totals:	(A)		— (B)
2.		· — —	· ——		-		-	_` ′
3.				-	Prevalence Inde	x = B/A =		_
4.					Hydrophytic Vegetation	n Indicators	::	
5.			· -		x Dominance Test	is >50%		
6.					Prevalence Index	is ≤3.0 ¹		
7			·		Morphological Ad			
8.		_			data in Remar	ks or on a sep	parate shee	et)
		2	= Total Cov	er	Problematic Hydr	ophytic Vege	tation ¹ (Exp	lain)
Woody Vine Stratum (Plot size:)				1			
1.		_	· 		¹ Indicators of hydric so be present, unless dist	il and wetland urbed or prob	d hydrology dematic	must
2			T-4-1 0		-			
		0	= Total Cove	er	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum	98 % C	over of Biotic	: Crust	0		es x	No	
Remarks: Sampling was conducted in	n a vernal pool w	ithin an acce	ess road.					
, 5			•					

(inches) Color (moist) % Color (moist) % Type¹ L. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp			
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) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp vegetation and hydrology Indicators: HYDROLOGY Wetland Hydrology Indicators:	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp	Problematic Hydric Soils³: ((A9) (LRR C) ((A10) (LRR B) /ertic (F18) Int Material (TF2) Inalian in Remarks) Intydrophytic vegetation and drology must be present, urbed or problematic.		
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) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology Indicators: YDROLOGY Wetland Hydrology Indicators:	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp	Problematic Hydric Soils³: ((A9) (LRR C) ((A10) (LRR B) /ertic (F18) Int Material (TF2) Int Material (T		
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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) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology Indicators: YDROLOGY Wetland Hydrology Indicators:	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp	Problematic Hydric Soils³: ((A9) (LRR C) ((A10) (LRR B) /ertic (F18) Int Material (TF2) Int Material (T		
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) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F8) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology Indicators: YDROLOGY Wetland Hydrology Indicators:	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp	Problematic Hydric Soils³: ((A9) (LRR C) ((A10) (LRR B) /ertic (F18) Int Material (TF2) Int Material (T		
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) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology Indicators: YDROLOGY Wetland Hydrology Indicators:	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp	Problematic Hydric Soils³: ((A9) (LRR C) ((A10) (LRR B) /ertic (F18) Int Material (TF2) Int Material (T		
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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) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology Indicators: YDROLOGY Wetland Hydrology Indicators:	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp	Problematic Hydric Soils³: ((A9) (LRR C) ((A10) (LRR B) /ertic (F18) Int Material (TF2) Int Material (T		
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) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F8) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology Indicators: YDROLOGY Wetland Hydrology Indicators:	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp	Problematic Hydric Soils³: ((A9) (LRR C) ((A10) (LRR B) /ertic (F18) Int Material (TF2) Int Material (T		
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) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F8) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology Indicators: YDROLOGY Wetland Hydrology Indicators:	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren Other (Exp	Problematic Hydric Soils³: ((A9) (LRR C) ((A10) (LRR B) /ertic (F18) Int Material (TF2) Int Material (T		
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Tom Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology Indicators: YDROLOGY Wetland Hydrology Indicators:	1 cm Muck 2 cm Muck Reduced V Red Paren Other (Exp	(A9) (LRR C) (A10) (LRR B) Vertic (F18) Int Material (TF2) Intolain in Remarks) Intydrophytic vegetation and drology must be present, surbed or problematic.		
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 (F3) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology Indicators: YDROLOGY Wetland Hydrology Indicators:	2 cm Muck Reduced \ Red Paren Other (Exp	(A10) (LRR B) Vertic (F18) It Material (TF2) It		
Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) X Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology indicators. YDROLOGY Wetland Hydrology Indicators:	Reduced \ Red Paren Other (Exp	Vertic (F18) Int Material (TF2) Intolain in Remarks) Intolain in Remarks		
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 (F2) Redox Dark Surface (F7) Redox Depressions (F8) X Vernal Pools (F9) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology indicators: YDROLOGY Wetland Hydrology Indicators:	Red Paren Other (Exp	nt Material (TF2) plain in Remarks) nydrophytic vegetation and drology must be present, urbed or problematic.		
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) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology indicators: YDROLOGY Wetland Hydrology Indicators:	Other (Exp 3Indicators of h wetland hy unless distr Hydric Soil Preser	nydrophytic vegetation and drology must be present, urbed or problematic.		
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) X Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology indicators. YDROLOGY Wetland Hydrology Indicators:	³ Indicators of h wetland hyd unless distu Hydric Soil Prese	nydrophytic vegetation and drology must be present, urbed or problematic. nt? Yesx No		
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology indicators. YDROLOGY Wetland Hydrology Indicators:	wetland hydunless distu	drology must be present, urbed or problematic. nt? Yesx No		
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) X Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology indicators. YDROLOGY Wetland Hydrology Indicators:	wetland hydunless distu	drology must be present, urbed or problematic. nt? Yesx No		
Sandy Mucky Mineral (S1) x Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology indicators. YDROLOGY Wetland Hydrology Indicators:	wetland hydunless distu	drology must be present, urbed or problematic. nt? Yesx No		
Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp vegetation and hydrology indicators. IYDROLOGY Wetland Hydrology Indicators:	unless distri	urbed or problematic. nt? Yes x No		
Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp vegetation and hydrology indicators. IYDROLOGY Wetland Hydrology Indicators:	Hydric Soil Presei	nt? Yes <u>x</u> No		
Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology indicators. IYDROLOGY Wetland Hydrology Indicators:				
Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp regetation and hydrology indicators. YDROLOGY Wetland Hydrology Indicators:				
Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp vegetation and hydrology indicators. YDROLOGY Wetland Hydrology Indicators:				
IYDROLOGY Wetland Hydrology Indicators:	. Hydric soils were assur	med due to strong hydrophytic		
Wetland Hydrology Indicators:				
	Second	dary Indicators (2 or more require		
		ater Marks (B1) (Riverine)		
Surface Water (A1) Salt Crust (B11)		, , ,		
		Sediment Deposits (B2) (Riverine)		
High Water Table (A2) x Biotic Crust (B12) A susting (A2)		Drift Deposits (B3) (Riverine)		
Saturation (A3)Aquatic Invertebrates (B13)		Drainage Patterns (B10)		
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	 '	/-Season Water Table (C2)		
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livir		n Muck Surface (C7)		
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)		ayfish Burrows (C8)		
x Surface Soil Cracks (B6) Recent Iron Reduction in Tilled So		turation Visible on Aerial Imagery (C		
Inundation Visible on Aerial Imagery (B7)Thin Muck Surface (C7)	Sha	allow Aquitard (D3)		
Water-Stained Leaves (B9) Other (Explain in Remarks)	FA0	C-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes No _x Depth (inches):				
Water Table Present? Yes No _x _ Depth (inches):				
	Wetland Hydrology Pre	esent? Yes x No		
(includes capillary fringe)		100 <u>x</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	is), if available:			
	,			
Remarks:				

Project/Site: TL-649 Otay-San Ysidro Border Wood	d to Steel	City/County: Chula Vis	ta/San Diego S	Sampling Date: 05/22/2014
Applicant/Owner: San Diego Gas & Electric			State: CA S	Sampling Point: 11
Investigator(s): Michael Nieto, Cailin O'Meara		Section, Township, R	ange: Otay Mesa quad, Ot	ay (Estudillo) land grant
Landform (hillslope, terrace, etc.): Mesa		Local relief (concave,	convex, none): Convex	Slope (%): 0
Subregion (LRR): LRR-C	Lat:	32°35'49.61"N	Long: 116°56'23.30"W	Datum: NAD-83
Soil Map Unit Name: Olivenhain cobbly loam			NWI classification:	
Are climatic / hydrologic conditions on the site typic	al for this time of	fyear? Yes x No	(If no, explain in R	emarks.)
Are Vegetation x, Soil , or Hydrolog				
Are Vegetation , Soil , or Hydrolog			(If needed, explain any answ	
SUMMARY OF FINDINGS – Attach site ma	·		s, transects, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes	x No	la tha Cammiad	Avec	
Hydric Soil Present? Yes	x No	Is the Sampled within a Wetland	YAS Y	No
Wetland Hydrology Present? Yes	x No	_		
Remarks: Vegetation is lacking due to disturbance nearby undisturbed vernal pools. VEGETATION – Use scientific names of pl		ad. Hydrophytic vegetatior	n assumed due to prevalence	e of hydrophytic vegetation in
VEGETATION 636 Scientific Harries of pr	Absolute	Dominant Indicator	Dominance Test worksh	eet:
Tree Stratum (Plot size:) 1.	% Cover		Number of Dominant Spec That Are OBL, FACW, or I	
2			Total Number of Dominant Species Across All Strata:	t
			Percent of Dominant Spec	(D)
T		= Total Cover	That Are OBL, FACW, or I	
Sapling/Shrub Stratum (Plot size:)			
1.	′		Prevalence Index worksl	heet:
2.			Total % Cover of:	Multiply by:
3.			OBL species	x 1 =
4.			FACW species	x 2 =
5			FAC species	
	0	= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size:)			UPL species	x 5 =
1.			Column Totals:	(A)(B)
2. 3.			Prevalence Index =	= B/A =
4.			Hydrophytic Vegetation	Indicators:
5.			Dominance Test is	
6.			Prevalence Index is	
7			Morphological Adap	otations ¹ (Provide supporting or on a separate sheet)
8		= Total Cover		hytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			- , , ,
1.			¹ Indicators of hydric soil a be present, unless disturt	and wetland hydrology must
2			•	or problemate.
0/ Para Cround in Llarb Stratum 400	0 // Cover of Biotic	= Total Cover	Hydrophytic Vegetation Present? Yes	No. v
	% Cover of Biotic		-	
Remarks: Sampling was conducted in a vernal poor	ol within an acce	ss road. Hydrophytic veget	ation assumed based on ne	arby undisturbed vernal pools.

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

Depth	Matrix		Re	edox Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² Te	exture	Remarks			
	· ·										
	· -										
_	-										
·	· ·										
¹ Type: C=Co	ncentration, D=Depletion,	, RM=Reduced	Matrix, CS=Covere	d or Coated S	and Grains.	² Location:	PL=Pore Linin	g, RC=Root Channel, M=Matrix.			
Hydric Soi	I Indicators: (Applica	ble to all LR	Rs, unless other	wise noted.	.)	Indi	cators for Pr	roblematic Hydric Soils ³ :			
Histoso	ol (A1)		Sandy F	Redox (S5)			1 cm Muck (A	A9) (LRR C)			
Histic E	Epipedon (A2)			d Matrix (S6))		2 cm Muck (A	A10) (LRR B)			
	Black Histic (A3)			Mucky Miner			Reduced Ver				
	en Sulfide (A4)			Gleyed Matri	, ,			Material (TF2)			
	ed Layers (A5) (LRR C	:)		d Matrix (F3				in in Remarks)			
	luck (A9) (LRR D)	,		Dark Surface	,		(=-	,			
	ed Below Dark Surface	(A11)		d Dark Surfa	` ,						
	Oark Surface (A12)	(, , , ,		Depressions		3Indi	icators of hyd	rophytic vegetation and			
	Sandy Mucky Mineral (S1)		x Vernal F		(10)			plogy must be present,			
	Sandy Gleyed Matrix (S4)			0010 (1 0)			unless disturbed or problematic.				
							ariicoo diotare	bed of problematic.			
Restrictive	Layer (if present):										
Type:			_								
Depth (inc	ches):					Hydric	Soil Present?	? Yes x No			
IVDDOLO	CV										
YDROLO Wetland H	ydrology Indicators:						Seconda	ry Indicators (2 or more required)			
	dicators (minimum of o	ne required: c	shack all that anni	v)			Water Marks (B1) (Riverine)				
		rie required, c					<u> </u>				
	e Water (A1)		Salt Crus					nent Deposits (B2) (Riverine)			
	/ater Table (A2)		Biotic Cru				Deposits (B3) (Riverine)				
	tion (A3)			nvertebrates	` '			age Patterns (B10)			
Water	Marks (B1) (Nonriveri	ne)	Hydroger	n Sulfide Od	or (C1)		Dry-S	eason Water Table (C2)			
Sedime	ent Deposits (B2) (Nor	rriverine)	Oxidized	Rhizosphere	es along Liv	ing Roots (C3)	Thin N	Muck Surface (C7)			
Drift De	eposits (B3) (Nonriver	ine)	Presence	of Reduced	d Iron (C4)		Crayfi	ish Burrows (C8)			
x Surface	e Soil Cracks (B6)		Recent Ir	on Reductio	n in Tilled S	Soils (C6)	Satura	ation Visible on Aerial Imagery (C9)			
Inunda	tion Visible on Aerial Ir	magery (B7)	Thin Muc	k Surface (C	C7)		Shallo	ow Aquitard (D3)			
	Stained Leaves (B9)	-3-7()		kplain in Ren	,			Neutral Test (D5)			
Field Obse	. ,										
		مو ۱۸	o x Depth (inc	hes).							
Water Table											
			Depth (inc			Wetlered Hyd	ralamy Draa	ent? Ves v Ne			
Saturation F		es No	o <u>x</u> Depth (inc	nes):		Wetland Hyd	rology Presi	ent? Yes x No			
	pillary fringe)	auga manita	ring wall parial sh	ataa nravia	ua inanasti	ana) if available					
Jeschbe Red	corded Data (stream g	auge, monitoi	ning well, aeriai pi	iotos, previo	us mspecii	oris), ii avaliable	5.				
Remarks: W	etland hydrology is pre	esent.									
Remarks: W	etland hydrology is pre	esent.									
Remarks: W	etland hydrology is pre	esent.									
Remarks: W	etland hydrology is pre	esent.									
Remarks: W	etland hydrology is pre	esent.									

Project/Site: TL-649 Otay-San Ysidro Border Wood to Steel	City/0	County: Chula Vis	sta/San Diego	Sampling Date: 05/22/2014
Applicant/Owner: San Diego Gas & Electric			State: CA S	Sampling Point: 12
Investigator(s): Michael Nieto, Cailin O'Meara	Sec	tion, Township, R	Range: Otay Mesa quad, O	tay (Estudillo) land grant
Landform (hillslope, terrace, etc.): Vernal pool	Loc	al relief (concave,	, convex, none): Convex	Slope (%): 0
Subregion (LRR): LRR-C	Lat: 32°35'56	5.00"N	Long: 116°56'11.41"W	Datum: NAD-83
Soil Map Unit Name: Olivenhain cobbly loam			NWI classification	n: Palustrine
Are climatic / hydrologic conditions on the site typical for this ti	ime of year?	Yes <u>x</u> No	o(If no, explain in F	Remarks.)
Are Vegetationx,Soil, or Hydrology	significantly di	sturbed? Yes	Are "Normal Circumstances	" present? Yes x No
Are Vegetation, Soil, or Hydrology	naturally probl	ematic? No	(If needed, explain any ansv	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling	point locations	s, transects, important	features, etc.
Hydrophytic Vegetation Present? YesxNo		la the Compled	A	
Hydric Soil Present? YesxNo		Is the Sampled within a Wetlan	Yes X	No
Wetland Hydrology Present? YesxNo		Within a Wellan	u.	
Remarks: Vegetation is mostly non-native due to disturbance vegetation in nearby undisturbed vernal pools. VEGETATION – Use scientific names of plants.	e from access	road. Hydrophytic	vegetation assumed due to	o prevalence of hydrophytic
Abso	olute Domina	ant Indicator	Dominance Test worksh	heet:
	over Specie		Number of Dominant Spe	
1			That Are OBL, FACW, or	
2			Total Number of Dominar	
3.			Species Across All Strata	(D)
4			Percent of Dominant Spe That Are OBL, FACW, or	
Conting/Chruth Ctratum (Diet size)	= Total	Cover	, ,	, , ,
Sapling/Shrub Stratum (Plot size:) 1.			Prevalence Index works	shoot:
2.			Total % Cover of:	Multiply by:
3.			OBL species 0	x 1 = 0
4.			FACW species 1	x 2 = 2
5.			FAC species 0	x 3 = 0
	= Total	Cover	FACU species 1	x 4 = 4
Herb Stratum (Plot size:)			UPL species 2	x 5 = 10
1. Schismus barbatus	2 Yes	S UPL	Column Totals: 4	(A) <u>16</u> (B)
2. Psilocarphus brevissimus var. brevissimus	1 Yes	s FACW	Prevalence Index	= B/A = 4
3. Erodium cicutarium	1 Yes	FACU		<u> </u>
4. Deinandra fasciculata 0).5 No	FACU	Hydrophytic Vegetation	Indicators:
5			Dominance Test is	>50%
6			Prevalence Index is	
7				ptations ¹ (Provide supporting
8				s or on a separate sheet)
	10 = Tota	Cover	x_ Problematic Hydrop	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			1	
1			be present, unless distur	and wetland hydrology must rbed or problematic.
2	- Total	Cover		
	= Total	OUVEI	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover of	Biotic Crust _		Present? Yes	sxNo
Remarks: Sampling was conducted in a vernal pool within an	access road.	Hydrophytic vege	tation assumed based on ne	earby undisturbed vernal pools.
		-		

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

Depth	Matrix		Re	dox Features						
(inches)	Color (moist)	%	Color (moist)	<u></u> % Ty	γpe¹ Loα	c ² Text	ure Remarks			
			_				· · · · · · · · · · · · · · · · · · ·			
							· · · · · · · · · · · · · · · · · · ·			
¹ Type: C=Con	centration, D=Depletion	, RM=Reduced	Matrix, CS=Covered	d or Coated Sand	d Grains.	² Location: PL	_=Pore Lining, RC=Root Channel, M=Matrix.			
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless other	wise noted.)		Indica	tors for Problematic Hydric Soils ³ :			
Histosol	(A1)		Sandy F	Redox (S5)		1	cm Muck (A9) (LRR C)			
Histic Ep	oipedon (A2)		Stripped	Matrix (S6)		2	cm Muck (A10) (LRR B)			
Black Hi	` '		Loamy N	Mucky Mineral	(F1)	Re	educed Vertic (F18)			
Hydroge	n Sulfide (A4)		Loamy (Gleyed Matrix (F2)	Re	ed Parent Material (TF2)			
	d Layers (A5) (LRR C	()		d Matrix (F3)		Ot	ther (Explain in Remarks)			
	ıck (A9) (LRR D)			Oark Surface (F	,					
	d Below Dark Surface	e (A11)		d Dark Surface		3				
	ark Surface (A12)			Depressions (F	8)		ators of hydrophytic vegetation and			
	Mucky Mineral (S1)		_x_Vernal F	oois (F9)			tland hydrology must be present,			
Sandy G	Gleyed Matrix (S4)					uni	less disturbed or problematic.			
Restrictive I	ayer (if present):									
Type:			_							
Depth (incl	nes):					Hydric So	oil Present? Yes x No No			
UVDDOL OG										
HYDROLOG							Coordon la diostore (2 or more remained			
_	drology Indicators:	no roquirod: o	abook all that apply				Secondary Indicators (2 or more required			
	cators (minimum of o	ne requirea, c				Water Marks (B1) (Riverine)				
	Water (A1)		Salt Crus	, ,		Sediment Deposits (B2) (Riverine)				
	ater Table (A2)		Biotic Cru			Drift Deposits (B3) (Riverine)				
Saturati	` '	,		nvertebrates (B	,		Drainage Patterns (B10)			
	larks (B1) (Nonriveri			Sulfide Odor (D ((00)	Dry-Season Water Table (C2)			
	nt Deposits (B2) (No	,		Rhizospheres	0 0	Roots (C3)	Thin Muck Surface (C7)			
	posits (B3) (Nonriver	ine)		of Reduced In	` ,	- (00)	Crayfish Burrows (C8)			
	Soil Cracks (B6)	(D.T)		on Reduction in		s (C6)	Saturation Visible on Aerial Imagery (C9)			
	on Visible on Aerial I	magery (B7)		k Surface (C7)			Shallow Aquitard (D3)			
vvater-S	tained Leaves (B9)		Other (Ex	plain in Remar	rks)		FAC-Neutral Test (D5)			
Field Observ										
Surface Water			o <u>x</u> Depth (incl							
Water Table			o <u>x</u> Depth (incl							
Saturation Pr		es No	o <u>x</u> Depth (incl	hes):	w	etland Hydro	logy Present? Yes x No			
(includes cap	oillary fringe) orded Data (stream g	auga monitor	ring well gorial sh	notos provious	inenections) if available:				
Describe Reco	Dided Data (Stream 9	auge, monitor	ning well, aerial pri	iotos, previous	Inspections), ii avaliable.				
Remarks:										

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: Chula Vi	sta/San Diego	Sampling Da	te: 05/22/2014
Applicant/Owner: San Diego Gas & E	lectric				State: CA	Sampling Poi	int: <u>13</u>
Investigator(s): Michael Nieto, Cailin C)'Meara		Section,	Township, F	Range: Otay Mesa quad, 0	Otay (Estudillo) land grant
Landform (hillslope, terrace, etc.): Verr	nal pool		Local rel	ief (concave	, convex, none): Convex	S	Slope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'55.76"N	1	Long: 116°56'4.94"W	Da	atum: NAD-83
Soil Map Unit Name: Huerhuero loam	ı, Riverwash				NWI classification	n: Palustrine	
Are climatic / hydrologic conditions on	the site typical fo	or this time o	f year? Yes	<u>x</u> N	o(If no, explain in	Remarks.)	
Are Vegetationx,Soil	or Hydrology	signif	icantly disturb	ed? Yes	Are "Normal Circumstance	s" present? Y	es x No_
Are Vegetation, Soil	or Hydrology _	natur	ally problemat	tic? No	(If needed, explain any ans	wers in Rema	arks.)
SUMMARY OF FINDINGS – Atta	ch site map s	howing sa	mpling poir	nt location	s, transects, important	features, e	tc.
Hydrophytic Vegetation Present?	Yes x	No			_		
Hydric Soil Present?	Yes x	No		ne Sampled nin a Wetlan	Y PS Y	(No	
Wetland Hydrology Present?	Yes x	No	With	iii a vveuai			
Remarks: Vegetation significantly divided by the second significantly divided by the second significant significantly divided by the second significant significan							
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant Sp		
1.					That Are OBL, FACW, o		1 (A)
2.					Total Number of Domina	ant	
3			·		Species Across All Strat		(B)
4.					Percent of Dominant Sp That Are OBL, FACW, o		100% (A/
		0	= Total Cove	er	That Ale ODL, I ACVV, O		10076 (7-01
Sapling/Shrub Stratum (Plot size:)						
1.		<u> </u>			Prevalence Index work		delia la collecció
2.					Total % Cover of: OBL species		ultiply by:
3.					FACW species		
4 5.					FAC species	x 3 =	
·		0	= Total Cove	er .	FACU species	x 4 =	
Herb Stratum (Plot size:)		Total Gove	,ı	UPL species	x 5 =	
Polypogon monspeliensis		1	Υ	FACW	Column Totals:	(A)	(B)
2.					Prevalence Index		
4.		-	·		Hydrophytic Vegetation	n Indicators:	
5.			. ———		x Dominance Test is		
6.		-	· 		Prevalence Index		
7					Morphological Ada	aptations ¹ (Pro	
8		1	= Total Cov	er er	Problematic Hydro	•	,
Woody Vine Stratum (Plot size:)					. , .	, ,
1			·		¹ Indicators of hydric soi be present, unless dist	I and wetland urbed or probl-	hydrology must ematic.
		0	= Total Cove	er	Hydrophytic		
% Bare Ground in Herb Stratum	99 % C	over of Biotic	Crust	0	Vegetation Present? Ye	es x	No
Remarks: Sampling was conducted in	a vernal pool w	ithin an acce	ess road.				

Depth	cription: (Describe t Matrix	o uie aeptn ne		i ent tne in edox Feati		COULTE	i die absenc	e oi illuicator	ə. <i>j</i>
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ıre	Remarks
			, ,						
									
					· ——				
						-			
¹ Type: C=Co	 ncentration, D=Depletio	n RM=Reduced I	Matrix CS=Covere	ed or Coated	Sand Grain		² I ocation: PI	=Pore Lining RC	C=Root Channel, M=Matrix.
	Indicators: (Applic								ematic Hydric Soils ³ :
Histoso	`	abio to all Eiti	•	Redox (S5	•			m Muck (A9) (•
	pipedon (A2)			d Matrix (S				m Muck (A3) (
	listic (A3)			Mucky Mir				duced Vertic (
	en Sulfide (A4)			Gleyed Ma				d Parent Mate	•
	d Layers (A5) (LRR	C)		ed Matrix (F				ner (Explain in	` '
	uck (A9) (LRR D)	-,		Dark Surfa	,			(=: (=: (=: (=: (=: (=: (=: (=: (=: (=:	,
	d Below Dark Surface	ce (A11)		d Dark Su	` '				
	ark Surface (A12)	,		Depression			³ Indicat	tors of hydroph	nytic vegetation and
Sandy I	Mucky Mineral (S1)		x Vernal	Pools (F9)			wet	land hydrology	must be present,
Sandy	Gleyed Matrix (S4)						unle	ess disturbed o	or problematic.
Restrictive	Layer (if present):								
Type:	_u,o. (p. 000).								
Depth (inc	pos).		_				Hydric Sci	il Present?	Yes x No
			=				1		ue to strong hydrophytic
HYDROLO								Sacandary In	dicators (2 or more required
	ydrology Indicators		book all that ann	I. A					
	icators (minimum of	one required; c							rks (B1) (Riverine)
	e Water (A1)		Salt Crus						Deposits (B2) (Riverine)
	ater Table (A2)		x Biotic Cr	. ,					sits (B3) (Riverine)
	ion (A3)			nvertebrat					Patterns (B10)
	Marks (B1) (Nonrive		, ,	n Sulfide C	` '				on Water Table (C2)
	ent Deposits (B2) (No			•	eres along		Roots (C3)		Surface (C7)
	eposits (B3) (Nonrive	erine)			ced Iron (C	•			Burrows (C8)
	Soil Cracks (B6)				tion in Tille	ed Soils ((C6)		Visible on Aerial Imagery (C9)
Inundat	ion Visible on Aerial	Imagery (B7)	Thin Mud	ck Surface	(C7)		,	Shallow A	quitard (D3)
Water-9	Stained Leaves (B9)		Other (E	xplain in R	temarks)		•	FAC-Neut	ral Test (D5)
Field Obser	vations:								
Surface Wat	ter Present?	Yes No	x Depth (inc	ches):					
Water Table	Present?		x Depth (inc						
Saturation P			x Depth (inc			We	tland Hydrol	ogy Present?	Yes x No
	pillary fringe)						,	3,	
Describe Rec	corded Data (stream	gauge, monitor	ing well, aerial p	hotos, prev	vious inspe	ections),	if available:		
Damada									
Remarks:									

Project/Site: TL-649 Otay-San Ysidro Border Wood to S	Steel	City/Count	y: Chula Vis	sta/San Diego S	Sampling Date:	05/22/2014
Applicant/Owner: San Diego Gas & Electric				State: CA S	Sampling Point:	14
Investigator(s): Michael Nieto, Cailin O'Meara		Section,	Township, F	Range: Otay Mesa quad, Ot	ay (Estudillo) la	and grant
Landform (hillslope, terrace, etc.): Drainage		Local reli	ef (concave	, convex, none): Convex	Slop	oe (%): 2%
Subregion (LRR): LRR-C	Lat:	32°35'55.43"I	N	Long: 116°56'1.58"W	Datur	m: <u>NAD-83</u>
Soil Map Unit Name: Riverwash				NWI classification:	Riverine	
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes	x No	o(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology	signifi	cantly disturbe	ed? No	Are "Normal Circumstances"	present? Yes	xNo
Are Vegetation, Soil, or Hydrology	natura	ally problemati	c? No	(If needed, explain any answ	ers in Remarks	s.)
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poin	t location	s, transects, important f	eatures, etc.	
Hydrophytic Vegetation Present? Yes x	No					
Hydric Soil Present? Yes x	No		e Sampled in a Wetlan	Yes x	No	
Wetland Hydrology Present? Yes x	No		iii a wellan	u:		
Remarks: Sampling point within emergent marsh vege	etation locate	ed within drain	age.			
VEGETATION II						
VEGETATION – Use scientific names of plants	Absolute	Dominant	Indicator	Dominance Test worksh	oot:	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Spec		
1.				That Are OBL, FACW, or F		2 (A)
2.				Total Number of Dominant	t	
3				Species Across All Strata:		2 (B)
4				Percent of Dominant Spec That Are OBL, FACW, or F		100% (A/B)
		= Total Cover	r	That Ale Obl., I ACVV, OF I	AC	(~10)
Sapling/Shrub Stratum (Plot size:)						
1. Iva hayesiana	70	Yes	FACW	Prevalence Index works		
2. Foeniculum vulgare	3	No No	UPL	Total % Cover of:		oly by:
3. Tamarix ramossisima	2	No	FAC	OBL species	x1=	
4				FACW species FAC species	x 2 = x 3 =	<u> </u>
5	75	= Total Cover		FACU species	x 4 =	
Herb Stratum (Plot size:)		- Total Cove	!	UPL species	x 5 =	<u> </u>
1. Polypogon monspeliensis	2	Yes	FACW	Column Totals:	(A)	(B)
2				5		
3.				Prevalence Index =	- B/A =	
4.		-		Hydrophytic Vegetation	Indicators:	
5.				x Dominance Test is >	>50%	
6.				Prevalence Index is		
7.				Morphological Adap	tations ¹ (Provid	de supporting
8.				data in Remarks	or on a separa	ite sheet)
	2	= Total Cove	er	Problematic Hydrop	hytic Vegetatio	n¹ (Explain)
Woody Vine Stratum (Plot size:)						
1				¹ Indicators of hydric soil a		
2				be present, unless disturb	bed or problem	auc.
		= Total Cover	r	Hydrophytic		
% Bare Ground in Herb Stratum 88% % Co	ver of Biotic	Crust		Vegetation Present? Yes	x No	n
				103		·
Remarks:						

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

Depth	Matrix	<u></u>		dox Featu	ıres		<u>-</u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1.5	4/3 7.5 YR	100	_	_		-	Silty clay loam	<u>-</u>
2-15	4/2 10 YR	97	5 YR 5/6	3	С	PL	Silty clay	Organic material present in layer
					<u> </u>			
		 			·			
				-				
-								
¹ Type: C=C	oncentration, D=Depletion	on, RM=Redu	ced Matrix, CS=Covered	d or Coated	Sand Grain	S. 2	Location: PL=Pore I	ining, RC=Root Channel, M=Matrix.
Hydric So	il Indicators: (Appli	cable to all	LRRs, unless other	wise note	ed.)		Indicators fo	r Problematic Hydric Soils ³ :
	ol (A1)			Redox (S5	•			ck (A9) (LRR C)
	Epipedon (A2)			l Matrix (S				ck (A10) (LRR B)
	Histic (A3) gen Sulfide (A4)			Mucky Mir Gleyed Ma				Vertic (F18) ent Material (TF2)
	ed Layers (A5) (LRR	C)	x Deplete	•				φlain in Remarks)
	Muck (A9) (LRR D)	•,		Dark Surfa				p.a
	ed Below Dark Surfa	ce (A11)	Deplete	d Dark Su	rface (F7)			
Thick	Dark Surface (A12)			Depressio	` '			hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal F	Pools (F9)				ydrology must be present,
Sandy	Gleyed Matrix (S4)						unless dis	turbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (in	ches):						Hydric Soil Pres	ent? Yes <u>x</u> No
Remarks:							1	
HYDROLO	OGY							
	lydrology Indicators	S:					Seco	ndary Indicators (2 or more required)
	dicators (minimum of		ed; check all that appl	v)				ater Marks (B1) (Riverine)
	ce Water (A1)		Salt Crus					ediment Deposits (B2) (Riverine)
	Vater Table (A2)		Biotic Cru	` '				rift Deposits (B3) (Riverine)
	ation (A3)		Aquatic I	nvertebrat	es (B13)			rainage Patterns (B10)
Water	Marks (B1) (Nonrive	erine)		n Sulfide C	` '			ry-Season Water Table (C2)
	ent Deposits (B2) (N		x Oxidized			Living Ro		nin Muck Surface (C7)
Drift D	eposits (B3) (Nonriv	erine)	Presence	of Reduc	ced Iron (C4	4)	C	rayfish Burrows (C8)
x Surfac	ce Soil Cracks (B6)		Recent Ir	on Reduc	tion in Tille	d Soils (C	6) Sa	aturation Visible on Aerial Imagery (C9)
Inunda	ation Visible on Aerial	Imagery (B	7) Thin Muc	k Surface	(C7)		SI	nallow Aquitard (D3)
Water	-Stained Leaves (B9))	Other (Ex	κplain in R	emarks)		F/	AC-Neutral Test (D5)
Field Obse	ervations:							
		Yes	No x Depth (inc	hes):				
Water Tabl	e Present?	Yes	No x Depth (inc			_		
Saturation			No x Depth (inc			Wetla	and Hydrology P	resent? Yes x No
(includes c	apillary fringe)			, <u></u>				
Describe Re	corded Data (stream	gauge, mor	nitoring well, aerial ph	notos, prev	vious inspe	ctions), if	available:	
Remarks:								
								A = : - 1 \

Project/Site: TL-649 Otay-San Ysidro Border Wood to S	Steel	City/Cour	nty: Chula Vis	ta/San Diego Sampling Date: 05/22/2014
Applicant/Owner: San Diego Gas & Electric				State: CA Sampling Point: 15
Investigator(s): Michael Nieto, Cailin O'Meara		Section,	Township, R	ange: T18S, R01W, Sec 13 & 24, Otay Mesa quadrangle
Landform (hillslope, terrace, etc.): Mesa		Local re	lief (concave,	convex, none): Convex Slope (%): 0
Subregion (LRR): LRR-C	Lat:	32°35'48.60"	N	Long: 116°55'45.73"W Datum: NAD-83
Soil Map Unit Name: Stockpen gravelly clay loam				NWI classification: Palustrine
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes	x No	(If no, explain in Remarks.)
Are Vegetation x, Soil , or Hydrology	signifi	cantly disturb	ed? Yes	Are "Normal Circumstances" present? Yes x No
Are Vegetation , Soil , or Hydrology	natura	ally problema	tic? No ((If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poi	nt locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No			
Hydric Soil Present? Yes x	No		he Sampled . hin a Wetland	Yes X No
Wetland Hydrology Present? Yes x	No	WILI	iiii a vvetiaiii	u: ————
Remarks: Vegetation is lacking due to disturbance from nearby undisturbed vernal pools. VEGETATION – Use scientific names of plants		oad. Hydroph	ytic vegetatio	n assumed due to prevalence of hydrophytic vegetation in
Plants	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2. 3.				Total Number of Dominant Species Across All Strata: 1 (R)
4.		-		Percent of Dominant Species (B)
	0	= Total Cove	er e	That Are OBL, FACW, or FAC: 0% (A/B)
Sapling/Shrub Stratum (Plot size:)			.	
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 0 x 2 = 0
5.				FAC species 0 x 3 = 0
	0	= Total Cove	er	FACU species1 x 4 =4
Herb Stratum (Plot size:)				UPL species 0 x 5 = 0
1. Erodium botrys	1	Yes	FACU	Column Totals:1 (A)4 (B)
2.				Prevalence Index = B/A = 4.0
3				Hudrouh, die Verstelien Indicatore
4. 5.				Hydrophytic Vegetation Indicators:
6.				Dominance Test is >50% Prevalence Index is ≤3.0¹
7		-		Morphological Adaptations¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
<u> </u>	1	= Total Cov	/er	x Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				Troblematio riyarophytio Vegetation (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u></u>	0	= Total Cove	er	Hydrophytic
% Bare Ground in Herb Stratum 99 % Co	over of Biotic		0	Vegetation Present? Yes x No
Remarks: Sampling was conducted in a vernal pool wit	hin an acce	ss road. Hydr	ophytic veget	tation assumed under normal circumstances.
		·		

Profile Descr	iption: (Describe	to the depth	needed to docume	ent the ind	icator or	confirm t	the absence of i	ndicators.)
Depth	Matrix			dox Featur			<u> </u>	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> %	Type ¹	Loc²	Texture	Remarks
							_	·
							<u> </u>	
							_	
								·
1	tti D-Dl-ti	- DM-Dadus	ed Matrix, CS=Covered			_ 2	2	Lining, RC=Root Channel, M=Matrix.
			RRs, unless other			5.		or Problematic Hydric Soils ³ :
Histosol		abic to all L		Redox (S5)	,			ck (A9) (LRR C)
	ipedon (A2)			Matrix (S6)			ck (A3) (LRR B)
Black His				Nucky Mine				Vertic (F18)
	n Sulfide (A4)			Gleyed Mat				ent Material (TF2)
	Layers (A5) (LRR	C)		d Matrix (F3				xplain in Remarks)
	ck (A9) (LRR D)	,	Redox D	ark Surfac	é (F6)		`	,
Depleted	Below Dark Surfa	ce (A11)	Deplete	d Dark Surf	ace (F7)			
	rk Surface (A12)			epressions	s (F8)			hydrophytic vegetation and
	ucky Mineral (S1)		_x_Vernal F	Pools (F9)				ydrology must be present,
Sandy G	leyed Matrix (S4)						unless di	sturbed or problematic.
Restrictive L	ayer (if present):							
Type:								
Depth (inch	es):						Hydric Soil Pres	ent? Yes x No
Remarks: No	soil nit was dug di	ie to the doci	mented presence	of San Dieg	n fairy shr	rimp Hvd	ric soils were ass	umed due to strong hydrology
indicators.	oon pit trae dag a	20 10 11.0 0001	o	ca 2.0g				amou duo to chong ny aronogy
HYDROLOG	v							
	drology Indicators						Seco	ndary Indicators (2 or more required)
_			; check all that appl	W				/ater Marks (B1) (Riverine)
	,	one required	Salt Crus					ediment Deposits (B2) (Riverine)
	Water (A1)		Biotic Cru					rift Deposits (B3) (Riverine)
	iter Table (A2)			` ,	o (D12)			. , , , ,
Saturatio	arks (B1) (Nonrive	rino\		nvertebrate: Sulfide Od	, ,			rainage Patterns (B10) ry-Season Water Table (C2)
	nt Deposits (B2) (N		, ,	Rhizosphei	` '	Livina Do		hin Muck Surface (C7)
	osits (B3) (Nonriv	•		of Reduce		J		rayfish Burrows (C8)
	Soil Cracks (B6)	ei ii ie)		on Reduction	•	•		aturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagany (P7				J Solis (C		
		3 , ,		k Surface (hallow Aquitard (D3)
vvaler-s	tained Leaves (B9)		Other (Ex	plain in Re	marks)		<u> </u>	AC-Neutral Test (D5)
Field Observ	ations:							
Surface Water	er Present?	Yes	No x Depth (inc	nes):		_		
Water Table I	Present?	Yes	No x Depth (inc	nes):		_		
Saturation Pro		Yes	No x Depth (inc	nes):		Wetla	and Hydrology F	resent? Yes x No
(includes cap						\		
Describe Reco	orded Data (stream	gauge, monit	toring well, aerial ph	otos, previ	ous insped	ctions), if	available:	
Remarks:								

Project/Site: TL-649 Otay-San Ysidro Border Wood to Ste	eel	City/Count	ty: Chula Vist	ta/San Diego Sampling Date: 05/22/2014
Applicant/Owner: San Diego Gas & Electric				State: CA Sampling Point: 16
Investigator(s): Michael Nieto, Cailin O'Meara		Section,	Township, Ra	ange: T18S, R01W, Sec 13 & 24, Otay Mesa quadrangle
Landform (hillslope, terrace, etc.): Mesa		Local reli	ef (concave,	convex, none): Convex Slope (%): 0
Subregion (LRR): LRR-C	Lat:	32°35'48.51"N	١	Long: <u>116°55'44.49"W</u> Datum: <u>NAD-83</u>
Soil Map Unit Name: Stockpen gravelly clay loam				NWI classification: Palustrine
Are climatic / hydrologic conditions on the site typical for the	his time of	year? Yes	x No	(If no, explain in Remarks.)
Are Vegetationx,Soil, or Hydrology	signifi	cantly disturb	ed? Yes A	Are "Normal Circumstances" present? Yesx_ No
Are Vegetation, Soil, or Hydrology	natura	ally problemat	ic? No ((If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sa	mpling poir	nt locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? YesxN	No	lo th	o Compled	Aron
Hydric Soil Present? Yes x	No		ne Sampled A nin a Wetland	Yes X No
Wetland Hydrology Present? YesxN	No	_		•
Remarks: Vegetation is mostly non-native due to disturb vegetation in nearby undisturbed vernal pools. VEGETATION – Use scientific names of plants.		access road	Hydrophytic	vegetation assumed due to prevalence of hydrophytic
	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
Capling/Chruh Stratum /Dlat size:	0	= Total Cove	r	· · · · · · · · · · · · · · · · · · ·
Sapling/Shrub Stratum (Plot size:) 1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
5.				FAC species 0 x 3 = 0
	0	= Total Cove	 r	FACU species 5 x 4 = 20
Herb Stratum (Plot size:)				UPL species1 x 5 = 5
Erodium botrys	2	Yes	FACU	Column Totals:6 (A)25 (B)
2. Deinandra fasciculata	3	Yes	FACU	Prevalence Index = B/A = 4.17
3. Centaurea melitensis	1	No	UPL	
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8		T-4-1 O		
Woody Vine Stratum (Plot size:)	6	= Total Cov	er	x_ Problematic Hydrophytic Vegetation¹ (Explain)
				1 adjactors of budgie on it and wattened budgeton would
1				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2	0	= Total Cove		·
-		- TOTAL COVE	•	Hydrophytic Vegetation
% Bare Ground in Herb Stratum 94 % Cove	er of Biotic	Crust	0	Present? Yes x No No
Remarks: Sampling was conducted in a vernal pool within	n an acces	ss road. Hydro	ophytic veget	lation assumed based on nearby undisturbed vernal pools.

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

Depth	Matrix		Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
		-		·			
¹ Type: C=Con	centration, D=Depletion	on, RM=Reduce	d Matrix, CS=Covered o	r Coated Sand Grains	s. ² Loc	ation: PL=Pore Lin	ing, RC=Root Channel, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LF	RRs, unless otherwi	se noted.)			Problematic Hydric Soils ³ :
Histosol			Sandy Red				(A9) (LRR C)
	oipedon (A2)		Stripped M	· ,			(A10) (LRR B)
Black Hi				cky Mineral (F1)		Reduced V	
	n Sulfide (A4)			eyed Matrix (F2)			Material (TF2)
	Layers (A5) (LRR	C)	Depleted N				ain in Remarks)
	ick (A9) (LRR D)	-,		rk Surface (F6)			,
	d Below Dark Surfa	ce (A11)	Depleted [Dark Surface (F7)			
	ark Surface (A12)	, ,		pressions (F8)		3Indicators of hy	drophytic vegetation and
Sandy M	lucky Mineral (S1)		x Vernal Poo	ols (F9)		wetland hyd	rology must be present,
Sandy G	Sleyed Matrix (S4)					unless distu	rbed or problematic.
Restrictive I	ayer (if present):						
Type:	-u, o. (p. 000).						
Depth (inch	oc).				Ц	ydric Soil Presen	t? Yes x No
Deptil (illoi			_			yano com r resen	100 <u>X</u> 110
IYDROLOG	2V						
	drology Indicator	<u> </u>				Second	ary Indicators (2 or more required
_			check all that apply)			<u></u>	er Marks (B1) (Riverine)
	Water (A1)	one required,	1. 37	D11)			, , , ,
	` '		Salt Crust (I	•			ment Deposits (B2) (Riverine)
	ater Table (A2)		Biotic Crust				Deposits (B3) (Riverine)
Saturation	` '			ertebrates (B13)			nage Patterns (B10)
	larks (B1) (Nonrive	•		Sulfide Odor (C1)			Season Water Table (C2)
	nt Deposits (B2) (N	,		nizospheres along	ū	` '	Muck Surface (C7)
	posits (B3) (Nonriv	erine)		f Reduced Iron (C4	,		fish Burrows (C8)
	Soil Cracks (B6)			Reduction in Tille	d Soils (C6)		ration Visible on Aerial Imagery (C9
	on Visible on Aeria	0 , (,		Surface (C7)			llow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Expl	ain in Remarks)		FAC	-Neutral Test (D5)
Field Observ	vations:						
Surface Wate	er Present?	Yes N	lo x Depth (inche	s):			
Water Table	Present?	Yes N	lo x Depth (inche	s):			
Saturation Pr			lo x Depth (inche		Wetland	Hydrology Pre	sent? Yes x No
(includes cap			· `	,			
Describe Reco	orded Data (stream	gauge, monito	oring well, aerial phot	os, previous inspe	ctions), if ava	nilable:	
Remarks:							

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: Chula Vi	sta/San Diego	_Sampling Da	ite: 05/22/20	014
Applicant/Owner: San Diego Gas & E	lectric				State: CA	_Sampling Po	int: <u>17</u>	
Investigator(s): Michael Nieto, Cailin C)'Meara		Section,	Township, F	Range: T18S, R01W, Sec	24, Otay Me	sa quadrang	jle
Landform (hillslope, terrace, etc.): Ven	nal pool		Local rel	ief (concave	, convex, none): Convex		Slope (%): <u>0</u>	
Subregion (LRR): LRR-C		Lat:	32°35'29.19"	N	Long: 116°56'21.86"W	Da	atum: <u>NAD-8</u>	33
Soil Map Unit Name: Stockpen grave	lly clay loam				NWI classification	on: Palustrine		
Are climatic / hydrologic conditions on	the site typical fo	or this time o	f year? Yes	xN	o(If no, explain in	Remarks.)		
Are Vegetationx,Soil	, or Hydrology	signif	icantly disturb	ed? Yes	Are "Normal Circumstance	s" present? Y	'es <u>x</u> N	۷o
Are Vegetation, Soil	, or Hydrology _	natur	ally problemat	tic? No	(If needed, explain any ans	swers in Rema	arks.)	
SUMMARY OF FINDINGS – Atta	ch site map s	howing sa	mpling poir	nt location	s, transects, importan	t features, e	etc.	
Hydrophytic Vegetation Present?	Yes x	No						
Hydric Soil Present?	Yes x	No		ne Sampled nin a Wetlan	YAS	x No		
Wetland Hydrology Present?	Yes x	No	Witi	iiii a vvetiaii	iu:			
Remarks: Vegetation significantly dis								
Tree Stratum (Plot size:	\	Absolute % Cover	Dominant Species?	Indicator	Dominance Test works		-	
Tree Stratum (Plot size:		% Cover	Species?	Status	Number of Dominant Sp That Are OBL, FACW, or		2	(A)
2					Total Number of Domina			_(^)
3.		·			Species Across All Strat		2	(B)
4.		-			Percent of Dominant Sp			
			= Total Cove	er	That Are OBL, FACW, o	or FAC:	100%	_(A/B)
Sapling/Shrub Stratum (Plot size:)							
1.					Prevalence Index work	sheet:		
2		<u> </u>			Total % Cover of:		ultiply by:	=
3					OBL species			_
4		<u> </u>			FACW species			-
5			- Total Cause		FAC species FACU species	x 3 = _ x 4 =		-
Herb Stratum (Plot size:	,		= Total Cove	#1	UPL species	^ x 5 =		Ē
Psilocarphus brevissimus var. bre	, evissimus	8	Yes	FACW	Column Totals:	(A)		(B)
Polypogon monspeliensis		3	Yes	FACW	-			-
3. Festuca perennis		2	No	FAC	Prevalence Inde	x = B/A =		-
4.		-			Hydrophytic Vegetatio	n Indicators:		
5.					x Dominance Test i	is >50%		
6.					Prevalence Index	is ≤3.0 ¹		
7					Morphological Ad			
8.		13	= Total Cov	/er	Problematic Hydro	•	•	
Woody Vine Stratum (Plot size:)		- Total Cov	Ci	Problematic Hydro	opriyuc vegeu	апоп (⊏хріа	uri)
1	/				¹ Indicators of hydric so be present, unless dist	il and wetland urbed or probl	hydrology m lematic.	nust
£.			= Total Cove	er	Hydrophytic	<u> </u>		
% Bare Ground in Herb Stratum	% C	over of Biotic	Crust		Vegetation Present?	esx	No	_
Remarks: Sampling was conducted in	n a vernal pool w	ithin an acce	ess road.					
· -	•							

	. ,	-		ent the indicator or c	onfirm the a	bsence of inc	dicators.)
Depth (inches)	Matr	<u>ix</u>		edox Features % Type ¹	Loc ²	Toyturo	Pomorko
(inches)	Color (moist)		Color (moist)	% Type ¹	LUC	Texture	Remarks
-				· ——— —			
				·			
-				·			
				·			
				. <u> </u>			
				ed or Coated Sand Grains.			ning, RC=Root Channel, M=Matrix.
Hydric Soi	I Indicators: (App	olicable to all LF	RRs, unless othe	rwise noted.)	l:	ndicators for	Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy	Redox (S5)	_	1 cm Mucl	k (A9) (LRR C)
Histic E	pipedon (A2)		Strippe	d Matrix (S6)	_	2 cm Mucl	k (A10) (LRR B)
Black F	Histic (A3)		Loamy	Mucky Mineral (F1)	_		Vertic (F18)
Hydrog	en Sulfide (A4)		Loamy	Gleyed Matrix (F2)		Red Parer	nt Material (TF2)
	ed Layers (A5) (LR	RC)		ed Matrix (F3)	_	Other (Exp	olain in Remarks)
	luck (A9) (LRR D)			Dark Surface (F6)			
Deplete	ed Below Dark Sur	face (A11)		ed Dark Surface (F7)			
	Oark Surface (A12)			Depressions (F8)	3		nydrophytic vegetation and
	Mucky Mineral (S1		x Vernal	Pools (F9)		-	drology must be present,
Sandy	Gleyed Matrix (S4)				unless dist	urbed or problematic.
Restrictive	Layer (if present):					
Type:							
Depth (inc	ches):				Hyd	dric Soil Prese	nt? Yes x No
HADBOLO	CV						
HYDROLO Wetland H	ydrology Indicate	ors.				Secon	dary Indicators (2 or more required
	dicators (minimum		check all that ann	lv)			ater Marks (B1) (Riverine)
	e Water (A1)	or one required,	Salt Crus				diment Deposits (B2) (Riverine)
	/ater Table (A2)			ust (B12)			ft Deposits (B3) (Riverine)
	tion (A3)			nvertebrates (B13)			
	Marks (B1) (Nonri	vorino\		` ,			ainage Patterns (B10) /-Season Water Table (C2)
				n Sulfide Odor (C1)	. dan Danta (
	ent Deposits (B2)			Rhizospheres along L	ving Roots (t	<i>'</i> —	n Muck Surface (C7)
	eposits (B3) (Nonr			e of Reduced Iron (C4)	0-:1- (00)		ayfish Burrows (C8)
	e Soil Cracks (B6)			ron Reduction in Tilled	Solis (Cb)		turation Visible on Aerial Imagery (C9
	tion Visible on Aer	0 , (,		ck Surface (C7)			allow Aquitard (D3)
Water-	Stained Leaves (B	i9)	Other (E	xplain in Remarks)		FA	C-Neutral Test (D5)
Field Obser	rvations:						
Surface Wa	ter Present?	Yes N	No x Depth (inc	ches):	_		
Water Table	Present?	Yes N	No x Depth (inc	ches):	_		
Saturation F	Present?	Yes N	No <u>x</u> Depth (inc	ches):	Wetland H	Hydrology Pro	esent? Yes x No
	pillary fringe)						
Describe Red	corded Data (strea	ım gauge, monito	oring well, aerial p	hotos, previous inspect	ions), if availa	able:	
Remarks:							

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: Chula Vi	sta/San Diego	_Sampling Da	ate: 05/22/	2014
Applicant/Owner: San Diego Gas & E	Electric				State: CA	_Sampling Po		
Investigator(s): Michael Nieto, Cailin (O'Meara				Range: T18S, R01W, Sec		sa quadrar	ngle
Landform (hillslope, terrace, etc.): Me	sa				, convex, none): Convex		Slope (%):	
Subregion (LRR): LRR-C		Lat:	32°35'28.64"	N	Long: 116°56'21.94"W		atum: <u>NAD</u>	-83
Soil Map Unit Name: Stockpen grave	•				NWI classification		;	
Are climatic / hydrologic conditions on			-					
					Are "Normal Circumstance			No
Are Vegetation, Soil	<u>,</u> or Hydrology _	natur	ally problemat	tic? No	(If needed, explain any an	swers in Rem	arks.)	
SUMMARY OF FINDINGS – Atta	ach site map s	howing sa	mpling poir	nt location	s, transects, importan	t features, d	etc.	
Hydrophytic Vegetation Present?	Yes x	No						
Hydric Soil Present?	Yes x	 No		ne Sampled	YAS	x No		
Wetland Hydrology Present?	Yes x	No	— with	nin a Wetlan	nd?			
Remarks: Vegetation significantly di	sturbed from acc	ess road						
rtemarks. Vegetation significantly di	sturbed from acc	ess road.						
VEGETATION – Use scientific r	names of plant							
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work			
1.		-		Otatao	Number of Dominant Sp That Are OBL, FACW, of		2	(A)
2.					Total Number of Domin			(' ')
3.			· 		Species Across All Stra	ta:	2	(B)
4.					Percent of Dominant Sp		4000/	
			= Total Cove	er	That Are OBL, FACW, o	JI FAC:	100%	(A/B)
Sapling/Shrub Stratum (Plot size:)							
1					Prevalence Index work			
2.		_	· 		Total % Cover of:		lultiply by:	_
3.			. ———		OBL species FACW species			
4 5.			. ———		FAC species	x 3 =		_
5			= Total Cove	ar	FACU species	x 4 =		_
Herb Stratum (Plot size:)		- Total Cove	2 1	UPL species	x 5 =		_
Psilocarphus brevissimus var. br	revissimus	3	Yes	FACW	Column Totals:	(A)		(B)
Polypogon monspeliensis		3	Yes	FACW	Dravalance Inde			
3. Festuca perennis		1	No	FAC	Prevalence Inde	x = B/A =		_
4.					Hydrophytic Vegetation	n Indicators	:	
5.					x Dominance Test	is >50%		
6		= -			Prevalence Index	is ≤3.0 ¹		
7.					Morphological Ad			
8					data in Remar	·		,
		7	= Total Cov	er	Problematic Hydr	ophytic Veget	ation¹ (Exp	ılain)
Woody Vine Stratum (Plot size:)				1			
1.			. ———		¹ Indicators of hydric so be present, unless dist	il and wetland turbed or prob	l hydrology lematic.	must
2			T-4-1 0		-			
			= Total Cove	er	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum	% C	over of Biotic	Crust			es x	No	
Remarks: Sampling was conducted in	n a vernal pool w	ithin an acce	ess road.					
, 3	•							

Depth	Matrix			edox Featu			i			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	e	Rema	arks
		· <u></u>								
							-			
							· 			
¹ Type: C=Con	centration, D=Depletion	n, RM=Reduce	ed Matrix, CS=Covere	d or Coated	Sand Grains.	² L	ocation: PL=	Pore Lining,	RC=Root Channe	I, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	rwise note	d.)				blematic Hydri	
Histosol	(A1)		Sandy I	Redox (S5))				9) (LRR C)	
	pipedon (A2)			d Matrix (S					10) (LRR B)	
Black Hi				Mucky Min				uced Verti		
	en Sulfide (A4)			Gleyed Ma	. ,				aterial (TF2)	
	d Layers (A5) (LRR (C)		ed Matrix (F					in Remarks)	
	ıck (A9) (LRR D)			Dark Surfa	,				•	
Depleted	d Below Dark Surfac	e (A11)	Deplete	ed Dark Sui	rface (F7)					
Thick Da	ark Surface (A12)		Redox	Depression	ns (F8)		³ Indicato	rs of hydro	ophytic vegetatio	n and
Sandy M	lucky Mineral (S1)		<u>x</u> Vernal	Pools (F9)			wetla	and hydrol	ogy must be pres	sent,
Sandy G	Gleyed Matrix (S4)						unles	ss disturbe	d or problemation	. .
Restrictive L	_ayer (if present):									
	, (
	nes): o soil pit was dug du nd hydrology indicato		umented presence	of San Die	go fairy shrii		Hydric Soil ic soils were		Yes <u>x</u> due to strong hy	Noydrophytic
Depth (inch Remarks: No vegetation ar	o soil pit was dug du nd hydrology indicate		umented presence	of San Die	go fairy shrii		,		-	
Depth (inches Remarks: No regetation are	o soil pit was dug du nd hydrology indicate	ors.	umented presence	of San Die	go fairy shrii		ic soils were	assumed	due to strong h	ydrophytic
Depth (inch Remarks: No regetation ar YDROLOG Wetland Hy	o soil pit was dug du nd hydrology indicate GY drology Indicators	ors.			go fairy shrii		ic soils were	e assumed	due to strong hy	ydrophytic or more require
Depth (inches properties of the content of the cont	o soil pit was dug dund hydrology indicate SY drology Indicators cators (minimum of	ors.	; check all that app	ly)	go fairy shrii		ic soils were	e assumed Gecondary Water I	due to strong hy / Indicators (2 c) Marks (B1) (Rive	ydrophytic or more require
Depth (inches properties) Depth (inches properties) Remarks: Novegetation and properties) Novegetation and properties Novegetati	o soil pit was dug dund hydrology indicated GY drology Indicators cators (minimum of o	ors.	; check all that app Salt Crus	ly) st (B11)	go fairy shrii		ic soils were	e assumed Secondary Water I	due to strong hy / Indicators (2 c Marks (B1) (Rive ent Deposits (B2)	or more require
Depth (inches properties) Depth (inches properties) Remarks: Novegetation and properties) Novegetation and properties Novegetati	o soil pit was dug dund hydrology indicate SY drology Indicators cators (minimum of	ors.	; check all that app Salt Crus	ly)	go fairy shrii		ic soils were	e assumed Secondary Water I	due to strong hy / Indicators (2 c) Marks (B1) (Rive	or more require
Depth (inches Penarks: Novegetation and Pena	osoil pit was dug dund hydrology indicated GY drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3)	ors. : one required	; check all that app Salt Crus Biotic Cr	ly) st (B11)			ic soils were	Secondary Water I Sedime	due to strong hy / Indicators (2 c Marks (B1) (Rive ent Deposits (B2)	or more require erine) (Riverine)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturation	o soil pit was dug du nd hydrology indicate SY rdrology Indicators cators (minimum of Water (A1) ater Table (A2)	ors. : one required	; check all that app Salt Crus Biotic Cr Aquatic	ly) st (B11) ust (B12)	es (B13)		ic soils were	Secondary Water I Sedime Drift De	I due to strong hy Indicators (2 c Marks (B1) (Rive ent Deposits (B2 eposits (B3) (Riv	or more require erine) (Riverine) erine)
Depth (inch Remarks: Novegetation are HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water M	osoil pit was dug dund hydrology indicated GY drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3)	ers. cone required	; check all that app Salt Crus Biotic Cr Aquatic I	ly) st (B11) ust (B12) Invertebrate n Sulfide C	es (B13)	np. Hydri	ic soils were	Secondary Water I Sedime Drift De	Indicators (2 companies (2 comp	or more require erine) () (Riverine) erine)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturatio Water M Sedime	o soil pit was dug dund hydrology indicators odrology Indicators cators (minimum of a Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver	crine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe	es (B13) odor (C1)	np. Hydri	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M	v Indicators (2 co Marks (B1) (Rive ent Deposits (B2) eposits (B3) (Rive ge Patterns (B10) ason Water Tab	or more require erine)) (Riverine) erine)))
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturatic Water M Sedimee	o soil pit was dug dund hydrology indicators GY drology Indicators cators (minimum of of water (A1) ater Table (A2) on (A3) darks (B1) (Nonriver on the positis (B2) (No	crine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) nvertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) Odor (C1) eres along L	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainag Dry-Se Thin Mi	/ Indicators (2 co Marks (B1) (Rive ent Deposits (B2) eposits (B3) (Rive ge Patterns (B10) ason Water Tabluck Surface (C7)	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimer Drift Dep	o soil pit was dug dund hydrology indicators drology Indicators cators (minimum of of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver of the Composits (B2) (Nonriver of the Composits (B3) (Nonriver of the Composi	cine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) nvertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) bdor (C1) eres along L ed Iron (C4) tion in Tilled	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin Me Crayfis Saturat	/ Indicators (2 compared to the control of the cont	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimet Water M Sedimet Drift Dep x Surface Inundati	o soil pit was dug dund hydrology indicators drology Indicators cators (minimum of of other Table (A2) on (A3) darks (B1) (Nonriver of other Deposits (B2) (Nonriver of other	cine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	/ Indicators (2 compared to the compared to th	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturatic Water M Sedimen Drift Dep x Surface Inundati Water-S	o soil pit was dug dund hydrology indicators drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (Noriver soil Cracks (B6) on Visible on Aerial stained Leaves (B9)	cine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	ly) st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduc ron Reduct ck Surface	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	Indicators (2 company) Indicators (2 company) Marks (B1) (River) Ent Deposits (B2) Eposits (B3) (River) E	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimer Drift Dep x Surface Inundati Water-S Field Observing	do soil pit was dug dund hydrology indicators drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) wations:	crine) crine) crine) crine) drine) lmagery (B7	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Other (E	ly) st (B11) ust (B12) invertebrate n Sulfide C l Rhizosphe e of Reduc ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	Indicators (2 company) Indicators (2 company) Marks (B1) (River) Ent Deposits (B2) Eposits (B3) (River) E	or more require erine)) (Riverine) erine))) le (C2)
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Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water Novegetation Water Novegetation Sedimen Drift Depoint X Surface Inundati Water-S Field Observation Water Table Saturation Provincludes cap Describe Record	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Intron (A3) Idraks (B1) (Nonriver Int Deposits (B2) (No Doosits (B3) (Nonriver Int Deposits (B3) (Nonriver Int Deposits (B6) Intro Deposits (B9) Idraks (B6) Intro Deposits (B9) Intro Dep	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 content of the content	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C

Project/Site: TL-649 Otay-San Ysidro Border Wood to	Steel	City/County: Chula	Vista/San Diego Sampling Date: 05/22/2014
Applicant/Owner: San Diego Gas & Electric			State: CA Sampling Point: 19
Investigator(s): Michael Nieto, Cailin O'Meara		Section, Township	o, Range: T18S, R01W, Sec. 24, Otay Mesa quadrangle
Landform (hillslope, terrace, etc.): Mesa		Local relief (conca	ave, convex, none): Convex Slope (%): 0
Subregion (LRR): LRR-C	Lat:	32°35'28.30"N	Long: 116°56'21.89"W Datum: NAD-83
Soil Map Unit Name: SStockpen gravelly clay loam			NWI classification: Palustrine
Are climatic / hydrologic conditions on the site typical fo	r this time of	vear? Yes x	No (If no, explain in Remarks.)
			s Are "Normal Circumstances" present? Yes <u>x</u> No
			(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sl	nowing sa	mpling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No	la tha Camari	and America
Hydric Soil Present? Yes x	No	Is the Samplwithin a Wet	Yes X No
Wetland Hydrology Present? Yes x	No		and:
Remarks: Vegetation is lacking due to disturbance from nearby undisturbed vernal pools. VEGETATION – Use scientific names of plants		oad. Hydrophytic veget	ation assumed due to prevalence of hydrophytic vegetation in
VEGETATION OSC SCIENCING Harnes of plants	Absolute	Dominant Indicate	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		
1			That Are OBL, FACW, or FAC: 0 (A)
2			Total Number of Dominant
3			Species Across All Strata: 0 (B)
4		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size:)		- Total Cover	
1			Prevalence Index worksheet:
2.			Total % Cover of: Multiply by:
3.			OBL species x 1 =
4.			FACW species x 2 =
5.			FAC species x 3 =
	0	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:			UPL species x 5 =
1.			Column Totals: (A)(B)
2.			Prevalence Index = B/A =
3			
4.			Hydrophytic Vegetation Indicators:
5.			Dominance Test is >50%
6.			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8		- Tatal Causa	-
Woody Vine Stratum (Plot size:)		= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
1			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u></u>	0	= Total Cover	
% Bare Ground in Herb Stratum 100 % Co	over of Biotic		Hydrophytic Vegetation Present? Yes No x
		-	egetation assumed based on nearby undisturbed vernal pools.
The second secon			and the second s

Type:	(A11)	RRs, unless other Sandy I Stripper Loamy Loamy Deplete Redox I Deplete x Vernal I	ed or Coated S. rwise noted. Redox (S5) d Matrix (S6) Mucky Miner Gleyed Matrix ed Matrix (F3) Dark Surface ed Dark Surface ed Dark Surface pools (F9)) ral (F1) rix (F2) rix (F6) ace (F7)	² Locatio	dicators for Pro 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain	10) (LRR B) c (F18) aterial (TF2)
Hydric Soil Indicators: (Applicab 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 (Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to regetation and hydrology indicators: YDROLOGY Wetland Hydrology Indicators:	(A11)	RRs, unless other Sandy I Stripper Loamy Loamy Deplete Redox I Deplete x Vernal I	rwise noted. Redox (S5) d Matrix (S6) Mucky Miner Gleyed Matrix ed Matrix (F3) Dark Surface ed Dark Surfa Depressions Pools (F9)) ral (F1) rix (F2) rix (F6) ace (F7)	3 ₁ 1	dicators for Pro 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ndicators of hydro wetland hydrolo unless disturbe	blematic Hydric Soils³: (a) (LRR C) (b) (LRR B) (c) (F18) (aterial (TF2) (in Remarks) (b) (b) (b) (c) (c) (d) (d) (d) (c) (F18) (c) (F
Hydric Soil Indicators: (Applicab 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 (Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to be regetation and hydrology indicators: IYDROLOGY Wetland Hydrology Indicators:	(A11)	RRs, unless other Sandy I Stripper Loamy Loamy Deplete Redox I Deplete x Vernal I	rwise noted. Redox (S5) d Matrix (S6) Mucky Miner Gleyed Matrix ed Matrix (F3) Dark Surface ed Dark Surfa Depressions Pools (F9)) ral (F1) rix (F2) rix (F6) ace (F7)	3 ₁ 1	dicators for Pro 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ndicators of hydro wetland hydrolo unless disturbe	blematic Hydric Soils³: (a) (LRR C) (b) (LRR B) (c) (F18) (d) (TF2) (d) (TF2) (e) (TF
Hydric Soil Indicators: (Applicab 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 (Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to be regetation and hydrology indicators: IYDROLOGY Wetland Hydrology Indicators:	(A11)	RRs, unless other Sandy I Stripper Loamy Loamy Deplete Redox I Deplete x Vernal I	rwise noted. Redox (S5) d Matrix (S6) Mucky Miner Gleyed Matrix ed Matrix (F3) Dark Surface ed Dark Surfa Depressions Pools (F9)) ral (F1) rix (F2) rix (F6) ace (F7)	3 ₁ 1	dicators for Pro 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ndicators of hydro wetland hydrolo unless disturbe	blematic Hydric Soils³: (a) (LRR C) (b) (LRR B) (c) (F18) (aterial (TF2) (in Remarks) (b) (b) (b) (c) (c) (d) (d) (d) (c) (F18) (c) (F
Hydric Soil Indicators: (Applicab 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 (Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to vegetation and hydrology Indicators: HYDROLOGY Wetland Hydrology Indicators:	(A11)	RRs, unless other Sandy I Stripper Loamy Loamy Deplete Redox I Deplete x Vernal I	rwise noted. Redox (S5) d Matrix (S6) Mucky Miner Gleyed Matrix ed Matrix (F3) Dark Surface ed Dark Surfa Depressions Pools (F9)) ral (F1) rix (F2) rix (F6) ace (F7)	3 ₁ 1	dicators for Pro 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ndicators of hydro wetland hydrolo unless disturbe	blematic Hydric Soils³: (a) (LRR C) (b) (LRR B) (c) (F18) (aterial (TF2) (in Remarks) (b) (b) (b) (c) (c) (d) (d) (d) (c) (F18) (d) (d) (d) (d) (d) (d) (e) (f) (f) (f) (f) (f) (e) (f) (f) (f) (f) (f) (e) (f)
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Hydric Soil Indicators: (Applicab 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 (Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to vegetation and hydrology Indicators: HYDROLOGY Wetland Hydrology Indicators:	(A11)	RRs, unless other Sandy I Stripper Loamy Loamy Deplete Redox I Deplete x Vernal I	rwise noted. Redox (S5) d Matrix (S6) Mucky Miner Gleyed Matrix ed Matrix (F3) Dark Surface ed Dark Surfa Depressions Pools (F9)) ral (F1) rix (F2) rix (F6) ace (F7)	3 ₁ 1	dicators for Pro 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ndicators of hydro wetland hydrolo unless disturbe	blematic Hydric Soils³: (a) (LRR C) (b) (LRR B) (c) (F18) (aterial (TF2) (in Remarks) (b) (b) (b) (c) (c) (d) (d) (d) (c) (F18) (d) (d) (d) (d) (d) (d) (e) (f) (f) (f) (f) (f) (e) (f) (f) (f) (f) (f) (e) (f)
Hydric Soil Indicators: (Applicab 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 (Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to vegetation and hydrology Indicators: HYDROLOGY Wetland Hydrology Indicators:	(A11)	RRs, unless other Sandy I Stripper Loamy Loamy Deplete Redox I Deplete x Vernal I	rwise noted. Redox (S5) d Matrix (S6) Mucky Miner Gleyed Matrix ed Matrix (F3) Dark Surface ed Dark Surfa Depressions Pools (F9)) ral (F1) rix (F2) rix (F6) ace (F7)	3 ₁ 1	dicators for Pro 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ndicators of hydro wetland hydrolo unless disturbe	blematic Hydric Soils³: (a) (LRR C) (b) (LRR B) (c) (F18) (d) (TF2) (d) (TF2) (e) (TF
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Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the surface (A12) Remarks: No soil pit was dug due to the surface (A12) HYDROLOGY Wetland Hydrology Indicators:	(A11)	Stripped Loamy Loamy Deplete Redox I Redox I X Vernal I	d Matrix (S6) Mucky Miner Gleyed Matri ed Matrix (F3) Dark Surface ed Dark Surfa Depressions Pools (F9)	ral (F1) rix (F2) ri) e (F6) ace (F7)		2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain Indicators of hydro wetland hydrolo unless disturbe	10) (LRR B) c (F18) aterial (TF2) in Remarks) ophytic vegetation and ogy must be present, d or problematic.
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Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due t vegetation and hydrology indicators HYDROLOGY Wetland Hydrology Indicators:	to the docur				Hydr	unless disturbe	d or problematic.
Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due t vegetation and hydrology indicators HYDROLOGY Wetland Hydrology Indicators:	to the docur	— mented presence	of San Diego		Hydr		
Type: Depth (inches): Remarks: No soil pit was dug due t vegetation and hydrology indicators HYDROLOGY Wetland Hydrology Indicators:	to the docur	— mented presence	of San Diego		Hvdr	ic Soil Present?	Ves v No
Type: Depth (inches): Remarks: No soil pit was dug due tvegetation and hydrology indicators HYDROLOGY Wetland Hydrology Indicators:	to the docur	— — mented presence	of San Diego		Hvdr	ic Soil Present?	Vas v No
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Remarks: No soil pit was dug due t vegetation and hydrology indicators HYDROLOGY Wetland Hydrology Indicators:	to the docur	— mented presence	of San Diego		- I TVUI	ic Soil Present?	
vegetation and hydrology indicators HYDROLOGY Wetland Hydrology Indicators:	to the docur	mented presence	of San Diego		,		103 X NO
						Secondary	Indicators (2 or more require
i initially indicators (IIIIIIIIIIIIII Of Offi	e required;	check all that app	oly)			Water N	Marks (B1) (Riverine)
Surface Water (A1)		Salt Crus					ent Deposits (B2) (Riverine)
High Water Table (A2)			rust (B12)				. , , , , ,
` ` '				(D40)			eposits (B3) (Riverine)
Saturation (A3)	,		Invertebrates				ge Patterns (B10)
Water Marks (B1) (Nonrivering	•		n Sulfide Od	` '			ason Water Table (C2)
Sediment Deposits (B2) (Nonr			•	J	ving Roots (C	<i>'</i> —	uck Surface (C7)
Drift Deposits (B3) (Nonriverin	ne)		e of Reduced				h Burrows (C8)
x Surface Soil Cracks (B6)		Recent I	ron Reductio	n in Tilled S	Soils (C6)	Saturat	ion Visible on Aerial Imagery (C
Inundation Visible on Aerial Im-	agery (B7)	Thin Mud	ck Surface (C	37)		Shallow	v Aquitard (D3)
Water-Stained Leaves (B9)		Other (E	xplain in Ren	narks)		FAC-Ne	eutral Test (D5)
Field Observations:							
	s N	lo x Depth (inc	ches):				
		lo x Depth (inc			-		
					Watland H	udralagu Pracan	142 Voc v No
(includes capillary fringe)	s N	lo x Depth (inc	cries).		- Welland n	ydrology Preser	nt? Yes <u>x</u> No
Oescribe Recorded Data (stream gai	uge monito	nring well serial al	hotos previo	nus inenecti	ons) if availa	hle:	
Describe Necorded Data (Stream gat	luge, monito	oring well, aeriai pi	riolos, previo	inspecti	oris), ii avalla	DIG.	
Remarks:							

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Count	y: <u>Chula Vi</u>	sta/San Diego	_Sampling Date	e: 05/22/2014
Applicant/Owner: San Diego Gas & E	Electric				State: CA	_Sampling Poir	nt: <u>20</u>
Investigator(s): Michael Nieto, Cailin (O'Meara		Section, 7	Γownship, F	Range: T18S, R01W, Sec	c. 24, Otay Mes	a quadrangle
Landform (hillslope, terrace, etc.): $\underline{\text{Dra}}$	inage		Local relie	ef (concave	e, convex, none): Convex	SI	lope (%): 1-4%
Subregion (LRR): LRR-C		Lat:	32°35'20.24"N	l	Long: 116°56'15.43"W	Dat	tum: NAD-83
Soil Map Unit Name: Olivenhain cobl	bly loam				NWI classification	on: Riverine	
Are climatic / hydrologic conditions on	the site typical f	or this time o	f year? Yes	<u>x</u> N	o(If no, explain in	n Remarks.)	
Are Vegetation, Soil	, or Hydrology	signif	ficantly disturbe	ed? No	Are "Normal Circumstance	es" present? Ye	es x No
Are Vegetation, Soil	<u>,</u> or Hydrology	natur	ally problemati	c? No	(If needed, explain any an	swers in Remar	rks.)
SUMMARY OF FINDINGS – Atta	ach site map s	showing sa	mpling poin	t location	s, transects, importan	nt features, et	tc.
Hydrophytic Vegetation Present?	Yes x	No	lo the	a Camplad	Araa		
Hydric Soil Present?	Yes x	No		e Sampled in a Wetlar	YAS	x No	
Wetland Hydrology Present?	Yes x	No					
Remarks: Sampling located in south VEGETATION – Use scientific r							
Tree Stratum (Plot size:	١	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work		
Salix lasiolepis		35%	Yes	FACW	Number of Dominant Sport That Are OBL, FACW, or	•	2 (A)
2. Salix goodingii		25%	Yes	FACW	Total Number of Domin		
3.		_			Species Across All Stra		3 (B)
4.					Percent of Dominant Sp		
		60%	= Total Cover		That Are OBL, FACW, o	or FAC:	67% (A/B)
Sapling/Shrub Stratum (Plot size:)					
Baccharis pilularis		2%	Yes	UPL	Prevalence Index wor	ksheet:	
2		_			Total % Cover of:	 -	Itiply by:
3		_			OBL species		
4.		_	· -		FAC appaies		
5			- Total Caver		FAC species FACU species	x 3 = x 4 =	
Herb Stratum (Plot size:	,	2%	= Total Cover		UPL species	^ ~ x 5 =	
1.					Column Totals:	(A)	(B)
2.		_	· ——— - · ——— -		Prevalence Inde		
4.		_			Hydrophytic Vegetation	on Indicators:	
5.		_	· 		x Dominance Test		
6.		- -	· ·-		Prevalence Index		
7. 8.			· ·		Morphological Ad		
Woody Vine Stratum (Plot size:			= Total Cove	er	Problematic Hydr	rophytic Vegetat	tion ¹ (Explain)
12.			·		¹ Indicators of hydric so be present, unless dist		
% Bare Ground in Herb Stratum	98% % C	Cover of Biotic	= Total Cover	-	Hydrophytic Vegetation Present?	es x I	No
Remarks:							

Depth	Matri		F	Redox Fea	tures		_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
				_				
								<u> </u>
							- '-	
								
							-	
							_	
								
¹ Type: C=Cond	centration. D=Deple	tion. RM=Reduc	ced Matrix, CS=Cover	red or Coate	d Sand Grain	s. 2	Location: PL=Po	re Lining, RC=Root Channel, M=Matrix.
			LRRs, unless other					for Problematic Hydric Soils ³ :
Histosol				Redox (S	-			Muck (A9) (LRR C)
	ipedon (A2)			ed Matrix (•			Muck (A10) (LRR B)
Black His				/ Mucky M				ed Vertic (F18)
	n Sulfide (A4)			Gleyed M				arent Material (TF2)
	Layers (A5) (LR	R C)		ted Matrix				(Explain in Remarks)
	ck (A9) (LRR D)	,		Dark Surf				(=
	Below Dark Sur	ace (A11)			urface (F7)			
	rk Surface (A12)	,		Depression	` ,		³ Indicators	of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		I Pools (F9				d hydrology must be present,
	leyed Matrix (S4)			`	,			disturbed or problematic.
Postrictive I	ayer (if present)							•
	cky conglomerate							
Type. Noc	ky congionnerate							
Donth (inch							Lludria Cail Dr	coont? Von v No
Depth (inch Remarks: Ro		e precludes di	igging. Hydric soils	assumed	based on st	rong hydro	Hydric Soil Pr	resent? Yes <u>x</u> Noion and hydrology indicators.
Remarks: Ro	ocky conglomerat	e precludes di	igging. Hydric soils	assumed	based on st	rong hydro		
Remarks: Ro	ocky conglomerat		igging. Hydric soils	assumed	based on st	rong hydro	phytic vegetat	ion and hydrology indicators.
Remarks: Ro IYDROLOG Wetland Hyd	ocky conglomerat Y drology Indicato	rs:			based on st	rong hydro	phytic vegetat	ion and hydrology indicators. condary Indicators (2 or more require
Remarks: Ro IYDROLOG Wetland Hyd Primary Indic	cky conglomerates Y drology Indicates cators (minimum	rs:	d; check all that ap	ply)	based on st	rong hydro	phytic vegetat	condary Indicators (2 or more require Water Marks (B1) (Riverine)
IYDROLOG Wetland Hyd Primary Indic x Surface	cky conglomerate Y drology Indicate cators (minimum) Water (A1)	rs:	d; check all that ap Salt Cru	ply) ust (B11)		rong hydro	pphytic vegetat	condary Indicators (2 or more require Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Remarks: Ro IYDROLOG Wetland Hyo Primary Indic x Surface V High Wa	cky conglomerate GY drology Indicate cators (minimum Water (A1) ter Table (A2)	rs:	d; check all that ap Salt Cru Biotic C	ply) ust (B11) crust (B12)		rong hydro	pphytic vegetat	condary Indicators (2 or more require Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Remarks: Ro HYDROLOG Wetland Hyo Primary Indic x Surface V High Wa Saturatio	drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3)	rs: of one require	d; check all that ap Salt Cru Biotic C Aquatic	ply) ust (B11) crust (B12)	ates (B13)	rong hydro	pphytic vegetat	condary Indicators (2 or more require Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Remarks: Ro HYDROLOG Wetland Hyd Primary Indic X Surface V High Wa Saturatic Water M	drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) (Nonri	rs: of one required	d; check all that ap Salt Cru Biotic C Aquatic Hydrog	ply) ust (B11) Crust (B12) Invertebra en Sulfide	ates (B13) Odor (C1)		See	condary 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)
IYDROLOG Wetland Hyd Primary Indic x Surface Water Mater Mat	drology Indicate cators (minimum Water (A1) on (A3) arks (B1) (Nonrint Deposits (B2) (rs: of one require verine) Nonriverine)	d; check all that ap Salt Cru Biotic C Aquatic Hydrog	ply) ust (B11) crust (B12) linvertebra en Sulfide d Rhizosp	ates (B13) Odor (C1) heres along	Living Ro	See	condary 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)
Remarks: Ro IYDROLOG Wetland Hyd Primary Indic x Surface With High Wa Saturatic Water M Sedimen Drift Dep	drology Indicators (minimum) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrint Deposits (B2) (Nonrint Deposits (B3) (Nonrint Deposits	rs: of one require verine) Nonriverine)	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Presence	ply) ust (B11) crust (B12) : Invertebra en Sulfide d Rhizosp ce of Redu	ates (B13) Odor (C1) heres along iced Iron (C	Living Ro	See x	condary Indicators (2 or more require 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)
HYDROLOG Wetland Hyd Primary Indic X Surface Will High Wa Saturatic Water M Sedimen Drift Dep	drology Indicate cators (minimum Water (A1) on (A3) arks (B1) (Nonrint Deposits (B2) (rs: of one require verine) Nonriverine)	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Presence	ply) ust (B11) crust (B12) : Invertebra en Sulfide d Rhizosp ce of Redu	ates (B13) Odor (C1) heres along	Living Ro	See x	condary 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)
IYDROLOG Wetland Hyd Primary Indic x Surface Migh Wa Saturatic Water M Sedimen Drift Dep Surface S	drology Indicators (minimum) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrint Deposits (B2) (Nonrint Deposits (B3) (Nonrint Deposits	verine)	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present	ply) ust (B11) crust (B12) : Invertebra en Sulfide d Rhizosp ce of Redu	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille	Living Ro	See x	condary Indicators (2 or more require 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)
IYDROLOG Wetland Hyd Primary Indic x Surface Migh Wa Saturatio Water M Sedimen Drift Dep Surface Inundation	drology Indicate cators (minimum Water (A1) on (A3) arks (B1) (Nonrint Deposits (B2) (Nonrint Cracks (B6) (Nonrint Cracks (B6) (Nonrint Cracks (B6))	rs: of one require verine) Nonriverine) verine) al Imagery (B	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu	ply) ust (B11) crust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7)	Living Ro	See x	condary Indicators (2 or more require 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 (C
HYDROLOG Wetland Hyd Primary Indic x Surface High Wa Saturatic Water M Sedimen Drift Dep Surface Inundatic Water-St	drology Indicate cators (minimum Water (A1) on (A3) arks (B1) (Nonrint Deposits (B2) (nosits (B3) (Nonrint Soil Cracks (B6) on Visible on Aeritained Leaves (B	rs: of one require verine) Nonriverine) verine) al Imagery (B	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu	ply) ust (B11) ust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu uck Surfac	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7)	Living Ro	See x	condary 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 (C) Shallow Aquitard (D3)
IYDROLOG Wetland Hyd Primary Indic x Surface Mater M Sedimen Drift Dep Surface Surface Mater Surface S	drology Indicate cators (minimum Water (A1) on (A3) arks (B1) (Nonrint Deposits (B2) (Nonrint Deposits (B3) (Nonrint Deposits (B6) on Visible on Aeritained Leaves (Brations:	verine) Nonriverine) verine) al Imagery (B	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I	ply) Just (B11) Frust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu Juck Surfac	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7)	Living Ro	See x	condary 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 (C) Shallow Aquitard (D3)
IYDROLOG Wetland Hyd Primary Indic x Surface Mater M Sedimen Drift Dep Surface Inundatio Water-Si Field Observ Surface Water	drology Indicate cators (minimum Water (A1) arks (B1) (Nonrint Deposits (B2) (Nonrint Deposits (B3) (Nonrint Depos	verine) Nonriverine) verine) al Imagery (B'	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent 7) Thin Mu Other (I	ply) Just (B11) Frust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu Juck Surfac Explain in I	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7)	Living Ro	See x	condary 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 (C) Shallow Aquitard (D3)
A Saturation Wetland Hyde Primary Indice X Surface of High Water M. Sedimen Drift Dep Surface of Inundation Water-Si Field Observ Surface Water Water Table F	drology Indicators (minimum Water (A1) arks (B1) (Nonrint Deposits (B2) (Nonrint Deposits (B3) (Nonrint Deposits (B3) (Nonrint Deposits (B4) arks (B6) an Visible on Aeritained Leaves (Barations:	verine) Nonriverine) verine) al Imagery (B'9) Yesx_ Yes _x_	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I	ply) Just (B11) Grust (B12) Invertebra en Sulfide d Rhizosp de of Redu lron Redu lron Redu luck Surfac Explain in lanches):	ates (B13) Odor (C1) heres along nced Iron (C ction in Tille e (C7) Remarks)	Living Root 4) d Soils (Co	See X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	ion and hydrology indicators. Condary 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 (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks: Ro HYDROLOG Wetland Hyd Primary Indic x Surface Water M Sedimen Drift Dep Surface Surface Surface Water-Si Field Observ Surface Water Water Table F Saturation Preserved	drology Indicators (minimum) Water (A1) arter Table (A2) on (A3) arks (B1) (Nonrint Deposits (B2) (Nonrint Deposits (B3) (Nonrint Deposits (B6)) on Visible on Aeritained Leaves (Bartenest? Present?	verine) Nonriverine) verine) al Imagery (B'	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I	ply) Just (B11) Grust (B12) Invertebra en Sulfide d Rhizosp de of Redu lron Redu lron Redu luck Surfac Explain in lanches):	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7) Remarks)	Living Root 4) d Soils (Co	See x	condary 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 (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOG Wetland Hyde Primary Indic x Surface of High Wa Saturation Water M Sedimen Drift Dep Surface of Inundation Water-St Field Observ Surface Water Water Table F Saturation Pre (includes capi	drology Indicate cators (minimum Water (A1) arks (B1) (Nonrint Deposits (B2) (nosits (B3) (Nonrint Deposits (B4) (nosits (verine) Nonriverine) verine) al Imagery (B'9) Yesx Yesx Yesx	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No Depth (ir No Depth (ir	ply) ust (B11) crust (B12) en Sulfide d Rhizosp ce of Redu lron Redu uck Surfac Explain in l	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7) Remarks) 4 0 0	Living Rod 4) d Soils (Co	See X oots (C3) 6)	ion and hydrology indicators. Condary 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 (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)
A Saturation Wetland Hyde Primary Indic X Surface Water M Sedimen Drift Dep Surface Surface Surface Surface Water-St	drology Indicate cators (minimum Water (A1) arks (B1) (Nonrint Deposits (B2) (nosits (B3) (Nonrint Deposits (B4) (nosits (verine) Nonriverine) verine) al Imagery (B'9) Yesx Yesx Yesx	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I	ply) ust (B11) crust (B12) en Sulfide d Rhizosp ce of Redu lron Redu uck Surfac Explain in l	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7) Remarks) 4 0 0	Living Rod 4) d Soils (Co	See X oots (C3) 6)	ion and hydrology indicators. Condary 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 (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOG Wetland Hyd Primary Indic X Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Saturation Pre (includes capi	drology Indicate cators (minimum Water (A1) arks (B1) (Nonrint Deposits (B2) (nosits (B3) (Nonrint Deposits (B4) (nosits (verine) Nonriverine) verine) al Imagery (B'9) Yesx Yesx Yesx	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No Depth (ir No Depth (ir	ply) ust (B11) crust (B12) en Sulfide d Rhizosp ce of Redu lron Redu uck Surfac Explain in l	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7) Remarks) 4 0 0	Living Rod 4) d Soils (Co	See X oots (C3) 6)	ion and hydrology indicators. Condary 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 (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks: Ro HYDROLOG Wetland Hyd Primary Indic X Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface S Inundatio Water-Si Field Observ Surface Water Water Table F Saturation Pro (includes capi	drology Indicate cators (minimum Water (A1) arks (B1) (Nonrint Deposits (B2) (nosits (B3) (Nonrint Deposits (B4) (nosits (verine) Nonriverine) verine) al Imagery (B'9) Yesx Yesx Yesx	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No Depth (ir No Depth (ir	ply) ust (B11) crust (B12) en Sulfide d Rhizosp ce of Redu lron Redu uck Surfac Explain in l	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7) Remarks) 4 0 0	Living Rod 4) d Soils (Co	See X oots (C3) 6)	ion and hydrology indicators. Condary 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 (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOG Wetland Hyd Primary Indic X Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Water Table F Saturation Pre (includes capi	drology Indicate cators (minimum Water (A1) arks (B1) (Nonrint Deposits (B2) (nosits (B3) (Nonrint Deposits (B4) (nosits (verine) Nonriverine) verine) al Imagery (B'9) Yesx Yesx Yesx	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No Depth (ir No Depth (ir	ply) ust (B11) crust (B12) en Sulfide d Rhizosp ce of Redu lron Redu uck Surfac Explain in l	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7) Remarks) 4 0 0	Living Rod 4) d Soils (Co	See X oots (C3) 6)	ion and hydrology indicators. Condary 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 (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks: Ro HYDROLOG Wetland Hyd Primary Indic X Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface S Inundatio Water-Si Field Observ Surface Water Water Table F Saturation Pro (includes capi	drology Indicate cators (minimum Water (A1) arks (B1) (Nonrint Deposits (B2) (nosits (B3) (Nonrint Deposits (B4) (nosits (verine) Nonriverine) verine) al Imagery (B'9) Yesx Yesx Yesx	d; check all that ap Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No Depth (ir No Depth (ir	ply) ust (B11) crust (B12) en Sulfide d Rhizosp ce of Redu lron Redu uck Surfac Explain in l	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille e (C7) Remarks) 4 0 0	Living Rod 4) d Soils (Co	See X oots (C3) 6)	ion and hydrology indicators. Condary 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 (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: TL-649 Otay-San Ysidro I	Border Wood to	Steel	City/Coun	ty: Chula Vi	sta/San Diego	_Sampling Da	te: 05/22/2014
Applicant/Owner: San Diego Gas & El	ectric				State: CA	Sampling Poi	nt: <u>21</u>
Investigator(s): Michael Nieto, Cailin O	'Meara		Section,	Township, F	Range: T18S, R01W, Sec	. 24, Otay Mes	sa quadrangle
Landform (hillslope, terrace, etc.): Mes	а		Local rel	ief (concave	, convex, none): Convex	S	lope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'19.47"I	N	Long: 116°56'21.86"W	Da	tum: NAD-83
Soil Map Unit Name: Stockpen gravel	ly clay loam				NWI classification	n: Palustrine	
Are climatic / hydrologic conditions on t	the site typical fo	or this time o	f year? Yes	x N	o(If no, explain in	Remarks.)	
Are Vegetation <u>x,</u> Soil <u>,</u>	or Hydrology	signif	icantly disturb	ed? Yes	Are "Normal Circumstance	s" present? Y	es x No
Are Vegetation, Soil,	or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any ans	wers in Rema	ırks.)
SUMMARY OF FINDINGS – Attac	ch site map s	howing sa	mpling poir	nt location	s, transects, importan	t features, e	tc.
Hydrophytic Vegetation Present?	Yes x	No			_		
Hydric Soil Present?	Yes x	No		ie Sampled in a Wetlan	YAS	(No	
Wetland Hydrology Present?	Yes x	No	WILL	iii a vvetiai	iu:		
Remarks: Vegetation significantly dis VEGETATION – Use scientific na							
		Absolute	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Sp		4 (4)
2					That Are OBL, FACW, o		1(A)
3.		-			Species Across All Strat		1 (B)
4.		<u> </u>			Percent of Dominant Sp	ecies	
		0	= Total Cove	r	That Are OBL, FACW, o	or FAC:	100% (A/E
Sapling/Shrub Stratum (Plot size:)						
1		· ·			Prevalence Index work	sheet:	
2					Total % Cover of:		ıltiply by:
3		<u> </u>			OBL species		
4.					FACW species		
5					FAC species FACU species	x 3 = _ x 4 =	
Herb Stratum (Plot size:	,	0	= Total Cove	er .	UPL species	x 4 = _ x 5 =	
Psilocarphus brevissimus var. bre	evissimus	25	Y	FACW	Column Totals:		(B)
Festuca perennis	, vicomina	5	N	FAC	-		
Polypogon monspeliensis		7	N	FACW	Prevalence Index	x = B/A =	
4.		· -			Hydrophytic Vegetatio	n Indicators:	
5.					x Dominance Test is		
6.					Prevalence Index		
7. 8.					Morphological Ada		
		37	= Total Cov	er	Problematic Hydro	·	,
Woody Vine Stratum (Plot size:)	_			¹ Indicators of hydric soi be present, unless distr	il and wetland urbed or proble	hydrology must ematic.
		0	= Total Cove	r	Hydrophytic		
% Bare Ground in Herb Stratum	63 % C	over of Biotic	Crust	0	Vegetation Present? Ye	es x	No
Remarks: Sampling was conducted in	a vernal pool w	ithin an acce	ess road.		•		

Depth	Matrix			edox Featu			i			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	e	Rema	arks
		· <u></u>								
							-			
							· 			
¹ Type: C=Con	centration, D=Depletion	n, RM=Reduce	ed Matrix, CS=Covere	d or Coated	Sand Grains.	² L	ocation: PL=	Pore Lining,	RC=Root Channe	I, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	rwise note	d.)				blematic Hydri	
Histosol	(A1)		Sandy I	Redox (S5))				9) (LRR C)	
	pipedon (A2)			d Matrix (S					10) (LRR B)	
Black Hi				Mucky Min				uced Verti		
	en Sulfide (A4)			Gleyed Ma	. ,				aterial (TF2)	
	d Layers (A5) (LRR (C)		ed Matrix (F					in Remarks)	
	ıck (A9) (LRR D)			Dark Surfa	,				•	
Depleted	d Below Dark Surfac	e (A11)	Deplete	ed Dark Sui	rface (F7)					
Thick Da	ark Surface (A12)		Redox	Depression	ns (F8)		³ Indicato	rs of hydro	ophytic vegetatio	n and
Sandy M	lucky Mineral (S1)		<u>x</u> Vernal	Pools (F9)			wetla	and hydrol	ogy must be pres	sent,
Sandy G	Gleyed Matrix (S4)						unles	ss disturbe	d or problemation	. .
Restrictive L	_ayer (if present):									
	, (
	nes): o soil pit was dug du nd hydrology indicato		umented presence	of San Die	go fairy shrii		Hydric Soil ic soils were		Yes <u>x</u> due to strong hy	Noydrophytic
Depth (inch Remarks: No vegetation ar	o soil pit was dug du nd hydrology indicate		umented presence	of San Die	go fairy shrii		,		-	
Depth (inches Remarks: No regetation are	o soil pit was dug du nd hydrology indicate	ors.	umented presence	of San Die	go fairy shrii		ic soils were	assumed	due to strong h	ydrophytic
Depth (inch Remarks: No regetation ar YDROLOG Wetland Hy	o soil pit was dug du nd hydrology indicate GY drology Indicators	ors.			go fairy shrii		ic soils were	e assumed	due to strong hy	ydrophytic or more require
Depth (inches properties of the content of the cont	o soil pit was dug dund hydrology indicate SY drology Indicators cators (minimum of	ors.	; check all that app	ly)	go fairy shrii		ic soils were	e assumed Gecondary Water I	due to strong hy / Indicators (2 c) Marks (B1) (Rive	ydrophytic or more require
Depth (inches properties) Depth (inches properties) Remarks: Novegetation and properties) Novegetation and properties Novegetati	o soil pit was dug dund hydrology indicated GY drology Indicators cators (minimum of o	ors.	; check all that app Salt Crus	ly) st (B11)	go fairy shrii		ic soils were	e assumed Secondary Water I	due to strong hy / Indicators (2 c Marks (B1) (Rive ent Deposits (B2)	or more require
Depth (inches properties) Depth (inches properties) Remarks: Novegetation and properties) Novegetation and properties Novegetati	o soil pit was dug dund hydrology indicate SY drology Indicators cators (minimum of	ors.	; check all that app Salt Crus	ly)	go fairy shrii		ic soils were	e assumed Secondary Water I	due to strong hy / Indicators (2 c) Marks (B1) (Rive	or more require
Depth (inches Penarks: Novegetation and Pena	osoil pit was dug dund hydrology indicated GY drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3)	ors. : one required	; check all that app Salt Crus Biotic Cr	ly) st (B11)			ic soils were	Secondary Water I Sedime	due to strong hy / Indicators (2 c Marks (B1) (Rive ent Deposits (B2)	or more require erine) (Riverine)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturation	o soil pit was dug du nd hydrology indicate SY rdrology Indicators cators (minimum of Water (A1) ater Table (A2)	ors. : one required	; check all that app Salt Crus Biotic Cr Aquatic	ly) st (B11) ust (B12)	es (B13)		ic soils were	Secondary Water I Sedime Drift De	I due to strong hy Indicators (2 c Marks (B1) (Rive ent Deposits (B2 eposits (B3) (Riv	or more require erine) (Riverine) erine)
Depth (inch Remarks: Novegetation are HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water M	osoil pit was dug dund hydrology indicated GY drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3)	ers. cone required	; check all that app Salt Crus Biotic Cr Aquatic I	ly) st (B11) ust (B12) Invertebrate n Sulfide C	es (B13)	np. Hydri	ic soils were	Secondary Water I Sedime Drift De	Indicators (2 companies (2 comp	or more require erine) () (Riverine) erine)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturatio Water M Sedime	o soil pit was dug dund hydrology indicators odrology Indicators cators (minimum of a Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver	crine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe	es (B13) odor (C1)	np. Hydri	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M	v Indicators (2 co Marks (B1) (Rive ent Deposits (B2) eposits (B3) (Rive ge Patterns (B10) ason Water Tab	or more require erine)) (Riverine) erine)))
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturatic Water M Sedimee	o soil pit was dug dund hydrology indicators GY drology Indicators cators (minimum of of water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver on the positis (B2) (No	crine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) nvertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) Odor (C1) eres along L	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainag Dry-Se Thin Mi	/ Indicators (2 co Marks (B1) (Rive ent Deposits (B2) eposits (B3) (Rive ge Patterns (B10) ason Water Tabluck Surface (C7)	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimer Drift Dep	o soil pit was dug dund hydrology indicators drology Indicators cators (minimum of of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver of the Composits (B2) (Nonriver of the Composits (B3) (Nonriver of the Composi	cine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) nvertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) bdor (C1) eres along L ed Iron (C4) tion in Tilled	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin Me Crayfis Saturat	/ Indicators (2 compared to the control of the cont	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimet Water M Sedimet Drift Dep x Surface Inundati	o soil pit was dug dund hydrology indicators drology Indicators cators (minimum of of other Table (A2) on (A3) darks (B1) (Nonriver of other Deposits (B2) (Nonriver of other	cine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	/ Indicators (2 compared to the compared to th	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturatic Water M Sedimen Drift Dep x Surface Inundati Water-S	o soil pit was dug dund hydrology indicators drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (Noriver soil Cracks (B6) on Visible on Aerial stained Leaves (B9)	cine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	ly) st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduc ron Reduct ck Surface	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	Indicators (2 company) Indicators (2 company) Marks (B1) (River) Ent Deposits (B2) Eposits (B3) (River) E	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimer Drift Dep x Surface Inundati Water-S Field Observing	do soil pit was dug dund hydrology indicators drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) wations:	crine) crine) crine) crine) drine) lmagery (B7	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Other (E	ly) st (B11) ust (B12) invertebrate n Sulfide C l Rhizosphe e of Reduc ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	Indicators (2 company) Indicators (2 company) Marks (B1) (River) Ent Deposits (B2) Eposits (B3) (River) E	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimer Drift Dep x Surface Inundati Water-S Field Observ Surface Water	do soil pit was dug dund hydrology indicators drology Indicators cators (minimum of a Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: er Present?	crine) crine) crine) crine) derine) derine) derine) derine)	Salt Crus Salt Crus Biotic Crus Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	ly) st (B11) ust (B12) nvertebrate n Sulfide C l Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	Indicators (2 company) Indicators (2 company) Marks (B1) (River) Ent Deposits (B2) Eposits (B3) (River) E	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of a Water (A1) ater Table (A2) on (A3) Idraks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial Stained Leaves (B9) Vations: er Present?	crine) crine) crine) crine) dragery (B7	Salt Crus Salt Crus Biotic Crus Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	ly) ust (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 content of the content	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inches) Remarks: Novegetation and vegetation	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Introduction (A3) Idraks (B1) (Nonriver Int Deposits (B2) (Nonriver Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver) Int De	crine) crine) crine) crine) dragery (B7	Salt Crus Salt Crus Biotic Crus Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	ly) ust (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 company) Indica	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table Saturation Pr (includes cap	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Intron (A3) Idraks (B1) (Nonriver Int Deposits (B2) (No Doosits (B3) (Nonriver Int Deposits (B3) (Nonriver Int Deposits (B6) Intro Deposits (B9) Idraks (B6) Intro Deposits (B9) Intro Dep	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 content of the content	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table Saturation Pr (includes cap	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Introduction (A3) Idraks (B1) (Nonriver Int Deposits (B2) (Nonriver Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver) Int De	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 content of the content	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table Saturation Pr (includes cap	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Intron (A3) Idraks (B1) (Nonriver Int Deposits (B2) (No Doosits (B3) (Nonriver Int Deposits (B3) (Nonriver Int Deposits (B6) Intro Deposits (B9) Idraks (B6) Intro Deposits (B9) Intro Dep	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 content of the content	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table Saturation Pr (includes cap	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Intron (A3) Idraks (B1) (Nonriver Int Deposits (B2) (No Doosits (B3) (Nonriver Int Deposits (B3) (Nonriver Int Deposits (B6) Intro Deposits (B9) Idraks (B6) Intro Deposits (B9) Intro Dep	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 content of the content	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water Novegetation Water Novegetation Sedimen Drift Depoint X Surface Inundati Water-S Field Observation Water Table Saturation Provincludes cap Describe Record	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Intron (A3) Idraks (B1) (Nonriver Int Deposits (B2) (No Doosits (B3) (Nonriver Int Deposits (B3) (Nonriver Int Deposits (B6) Intro Deposits (B9) Idraks (B6) Intro Deposits (B9) Intro Dep	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 control of the control	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: Chula Vi	sta/San Diego	Sampling Dat	te: <u>05/22/2014</u>
Applicant/Owner: San Diego Gas & E	Electric				State: CA	Sampling Poir	nt: <u>22</u>
Investigator(s): Michael Nieto, Cailin C	O'Meara		Section,	Township, F	Range: <u>T18S, R01W, Sec. 2</u>	24, Otay Mesa	a quadrangle
Landform (hillslope, terrace, etc.): Mes	sa				, convex, none): Convex	SI	lope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'18.27"l	N	Long: 116°56'21.86"W		tum: NAD-83
Soil Map Unit Name: Stockpen grave	elly clay loam				NWI classification	n: Palustrine	
Are climatic / hydrologic conditions on			-				
	_				Are "Normal Circumstances		
Are Vegetation, Soil	<u>,</u> or Hydrology _	natur	ally problemat	tic? No	(If needed, explain any answ	vers in Rema	rks.)
SUMMARY OF FINDINGS – Atta	ach site map s	howing sa	ımpling poir	nt location	s, transects, important	features, et	tc.
Hydrophytic Vegetation Present?	Yes x	No					
Hydric Soil Present?	Yes x	No		ne Sampled	Y PAY	No	
Wetland Hydrology Present?	Yes x	No	— with	nin a Wetlar	nd?		
Remarks: Vegetation significantly d							
remarks. Vegetation significantly of	istarbea ironi act	Jess Idau.					
VEGETATION – Use scientific r	names of plant	ts.					
Tree Charters (Diet eine)	,	Absolute	Dominant	Indicator	Dominance Test works	heet:	
Tree Stratum (Plot size:1.)	% Cover		Status	Number of Dominant Spe That Are OBL, FACW, or		3 (A)
2			·		Total Number of Dominar		3 (A)
3.			· ———		Species Across All Strata		3 (B)
4.			· 	-	Percent of Dominant Spe		
		0	= Total Cove	er	That Are OBL, FACW, or	FAC:	100% (A/
Sapling/Shrub Stratum (Plot size:)		-				
1			. <u></u>		Prevalence Index works	sheet:	
2					Total % Cover of:		Iltiply by:
3		_			OBL species		
4.		_	·		FACW species		
5			T-4-1 O		FAC species FACU species	x 3 = x 4 =	
Herb Stratum (Plot size:	,	0	= Total Cove	er	UPL species		
Psilocarphus brevissimus var. br) revissimus	2	Y	FACW	Column Totals:		(B)
Festuca perennis	Ovidentiae	3	<u> </u>	FAC	-		
Polypogon monspeliensis			<u> </u>	FACW	Prevalence Index	= B/A =	
4. Atriplex semibaccata		2	N	FAC	Hydrophytic Vegetation	Indicators:	
5.			. ——	-	x Dominance Test is		
6.					Prevalence Index is	s ≤3.0 ¹	
7.			· ———		Morphological Ada	ptations1 (Pro	vide supporting
8.			·		data in Remarks	s or on a sepa	arate sheet)
		20	= Total Cov	er	Problematic Hydro	phytic Vegeta	ition¹ (Explain)
Woody Vine Stratum (Plot size:)						
1.					¹ Indicators of hydric soil be present, unless distu	and wetland I	hydrology must
2		_	· 		be present, unless distu	bed of proble	mauc.
		0	= Total Cove	er	Hydrophytic		
% Bare Ground in Herb Stratum	80 % C	over of Biotic	c Crust	0	Vegetation Present? Yes	s x	No
Remarks: Sampling was conducted in			-	-	100		
nomarks. Sampling was conducted if	n a vemai pool w	iumi an acce	.33 IUau.				

Profile Desc Depth	cription: (Describe to Matrix	o the depth nee		ent the inc		confirm	the absence of	of indicators.)
(inches)	Color (moist)	% (Color (moist)	%	Type ¹	Loc ²		Remarks
(ITICITICS)	Odioi (moist)		boloi (moist)		Турс		Texture	Remarks
	-							
				-				
	-	· 		-				
	-							
	-							
	-							
				-				
¹ Type: C=Coi	ncentration, D=Depletion	n, RM=Reduced M	latrix, CS=Covere	d or Coated	Sand Grains	S.		ore Lining, RC=Root Channel, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LRR	s, unless other	wise note	ed.)		Indicator	s for Problematic Hydric Soils ³ :
Histoso	l (A1)		Sandy F	Redox (S5))		1 cm	Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped	d Matrix (S	6)		2 cm	Muck (A10) (LRR B)
Black H	listic (A3)		Loamy	Mucky Min	eral (F1)		Redu	ced Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy	Gleyed Ma	ıtrix (F2)		Red F	Parent Material (TF2)
Stratifie	d Layers (A5) (LRR	C)	Deplete	d Matrix (F	⁻ 3)		Other	r (Explain in Remarks)
1 cm M	uck (A9) (LRR D)		Redox I	Dark Surfa	ce (F6)			
	d Below Dark Surfac	e (A11)		d Dark Su				
	ark Surface (A12)			Depression	ns (F8)			s of hydrophytic vegetation and
	Mucky Mineral (S1)		x Vernal I	Pools (F9)				nd hydrology must be present,
Sandy 0	Gleyed Matrix (S4)						unless	s disturbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (inc	hes):						Hydric Soil P	Present? Yes x No
	-	- 4- 4b d		-f C Di-	f-il	winen Ilive		and the state of t
	nd hydrology indicato		ented presence	or San Die	go rairy sni	птр. нус	aric soils were a	assumed due to strong hydrophytic
vegetation a	na nyarology malcak	J13.						
HYDROLO								
	ydrology Indicators						<u>Se</u>	econdary Indicators (2 or more required
Primary Ind	icators (minimum of	one required; ch	eck all that app	y)				_ Water Marks (B1) (Riverine)
Surface	e Water (A1)		Salt Crus	st (B11)				_ Sediment Deposits (B2) (Riverine)
High W	ater Table (A2)		Biotic Cr	ust (B12)				Drift Deposits (B3) (Riverine)
Saturat	ion (A3)		Aquatic I	nvertebrate	es (B13)			Drainage Patterns (B10)
Water N	Marks (B1) (Nonrive	rine)	Hydroge	n Sulfide C	dor (C1)			Dry-Season Water Table (C2)
	ent Deposits (B2) (No		Oxidized	Rhizosphe	eres along	Livina Ro	oots (C3)	Thin Muck Surface (C7)
	eposits (B3) (Nonrive				ed Iron (C4	•		Crayfish Burrows (C8)
	e Soil Cracks (B6)	,			tion in Tille		.6) 	Saturation Visible on Aerial Imagery (C9
	tion Visible on Aerial	Imagen/(R7)		k Surface		u 000 (0		Shallow Aquitard (D3)
	Stained Leaves (B9)	imagery (b7)		xplain in R				FAC-Neutral Test (D5)
wvaler-	Stailled Leaves (D9)		Other (E.	xpiaiii iii Ki	emarks)	,		_ FAC-Neutral Test (D5)
Field Obser								
Surface Wat			x Depth (inc					
Water Table	Present?	/es No	x Depth (inc	hes):				
Saturation P	resent?	/es No	x Depth (inc	hes):		Wetl	and Hydrolog	yy Present? Yes x No
	pillary fringe)							
Describe Rec	corded Data (stream	gauge, monitorir	ng well, aerial pl	notos, prev	ious inspe	ctions), if	available:	
Remarks:								
i verrial No.								

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: Chula Vi	sta/San Diego	Sampling Date	e: <u>05/22/2014</u>
Applicant/Owner: San Diego Gas & E	Electric				State: CA S	Sampling Poin	nt: <u>23</u>
Investigator(s): Michael Nieto, Cailin G	O'Meara		Section,	Township, F	Range: <u>T18S, R01W, Sec. 2</u>	24, Otay Mesa	a quadrangle
Landform (hillslope, terrace, etc.): Me	sa		Local rel	ief (concave	e, convex, none): Convex	Slo	ope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'18.95"N	1	Long: 116°56'21.85"W		um: <u>NAD-83</u>
Soil Map Unit Name: Stockpen grave	elly clay loam				NWI classification	: Palustrine	
Are climatic / hydrologic conditions on			-				
					Are "Normal Circumstances'		
Are Vegetation, Soil	<u>,</u> or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any answ	vers in Remar	ks.)
SUMMARY OF FINDINGS – Atta	ach site map s	howing sa	mpling poir	nt location	s, transects, important	features, et	c.
Hydrophytic Vegetation Present?	Yes x	No					
Hydric Soil Present?	Yes x	No		e Sampled	YAS Y	No	
Wetland Hydrology Present?	Yes x	No	— with	in a Wetlan	nd?		
Remarks: Vegetation significantly d	listurbed from acc	ress mad					
rtemarks. Vegetation significantly u	istarbea irom acc	cess road.					
VEGETATION – Use scientific r	names of plant				· · · · · · · · · · · · · · · · · · ·		
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksh		
1.					 Number of Dominant Spe That Are OBL, FACW, or 		3 (A)
2.					Total Number of Dominan	nt	, , ,
3		<u> </u>			Species Across All Strata		3 (B)
4		_			Percent of Dominant Specification That Are OBL, FACW, or		100% (A/B)
	,	0	= Total Cove	er	That the OBE, I Move, of		(10070
Sapling/Shrub Stratum (Plot size:)				Prevalence Index works	hoot.	
1. 2.			. ———		Total % Cover of:		tiply by:
3.		-			OBL species		upiy by.
4.		.			FACW species		
5.			. ———		FAC species	x 3 =	
		0	= Total Cove	er	FACU species	x 4 =	
Herb Stratum (Plot size:)		•		UPL species	x 5 =	
Psilocarphus brevissimus var. br	revissimus	3	Y	FACW	Column Totals:	(A)	(B)
2. Festuca perennis		5	Y	FAC	Prevalence Index	= B/A =	
3. Polypogon monspeliensis		5	<u> </u>	FACW	-		
4. Avena barbata		1	N	UPL	Hydrophytic Vegetation		
5.			·		x Dominance Test is		
6				-	Prevalence Index is Morphological Adap		vido oupporting
8.		-			data in Remarks		
·		14	= Total Cov	er	Problematic Hydrog	•	
Woody Vine Stratum (Plot size:)					nijao rogotat	
1.	-				¹ Indicators of hydric soil	and wetland h	ydrology must
2.		-	· 		be present, unless distur	bed or probler	matic.
		0	= Total Cove	er	Hydrophytic		
% Bare Ground in Herb Stratum	86 % Co	over of Biotic	Cruot	0	Vegetation Present? Yes		No
			-		Present? Yes	S	No
Remarks: Sampling was conducted in	n a vernal pool w	itnin an acce	ess road.				

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A1) Black Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Reduce 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 (F3) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were as vegetation and hydrology indicators. Hydrocogy 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) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B6) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	
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Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Sandy Redox (S5) 1 cm M Histic Epipedon (A2) Stripped Matrix (S6) 2 cm M Black Histic (A3) Loamy Mucky Mineral (F1) Reduce Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Pa Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F9) Wetland Fyersent): Type: Depth (inches): Wetland Hydrology indicators: Primary Indicators (minimum of one required; check all that apply) Segetation and hydrology indicators: Primary Indicators (minimum of one required; check all that apply) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Into Mater Table Present? Water Table Present? Yes No x Depth (inches): Water Present? Yes No x Depth (inches): Water Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): Hydrogen Sulfide Odors, if available:	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Sardy Redox (S5) 1 cm M Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Reduce Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Pa Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Junicators of Wetsirad Unless of Wetsirad Unles	E Lining, RC=Root Channel, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Comy Mucky Mineral (F1) Redox Bratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Pa Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Indicators (R8) Indicators (or Problematic Hydric Soils ³ :
Histic Epipedon (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A4) Loamy Mucky Mineral (F1) Reduce Red Pa Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Pa Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Thick Dark Surface (A12) Redox Depressions (F8) Indicators of wetland Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Presser (A12) Redox Dark Surface (F6) Redox Depressions (F8) Indicators of wetland Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Indicators of wetland unless of Restrictive Layer (if present): Type: Depth (inches): Premarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were as egetation and hydrology indicators. Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Teled Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology indicators of the present of the primary of the primar	uck (A9) (LRR C)
Black Histic (A3)	uck (A10) (LRR B)
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) 2 pepleted Below Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): Type: Depth (inches): Permarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were as regetation and hydrology indicators. YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (E7) Wetland Hydrology indicators: Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Matrix Surface (F6) Redox Dark Surface (F6) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) X Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Securical Control of the Control of	d Vertic (F18)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (E 1 or Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Indicators of Sandy Mucky Mineral (S1) X Vernal Pools (F9) Wetland Unless of Sandy Gleyed Matrix (S4) Unless of Sandy Gleyed Matrix (S5) Unless of Sandy Gleyed Matrix (S4) Unless of Sa	rent Material (TF2)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Depth (inc	Explain in Remarks)
Thick Dark Surface (A12) Redox Depressions (F8) almost sandy Mucky Mineral (S1) X Vernal Pools (F9) wetland unless of sandy Gleyed Matrix (S4) Unless of the sandy Gleyed Matr	
Sandy Mucky Mineral (S1)	
Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were as vegetation and hydrology indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minium of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Staturation Present? Water Table Present? Yes No x Depth (inches): Wetland Hydrology (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	of hydrophytic vegetation and
Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Presents: Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were as vegetation and hydrology indicators. IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Orift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology (includes capillary fringe) Vescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	hydrology must be present,
Type:	isturbed or problematic.
Type:	
Depth (inches):	
Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were as vegetation and hydrology indicators. AYDROLOGY	sent? Yes x No
Wetland Hydrology Indicators: Sector Primary Indicators (minimum of one required; check all that apply)	
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) Field Observations: Surface Water Present? Yes No No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Wetland Hydrology Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ondary Indicators (2 or more require
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table (A2) Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Sescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Marks (B1) (Riverine)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Water-Stained Present? Yes No X Depth (inches): Water-Stained Present? Yes No X Depth (inches): Wetland Hydrology Wetland Hydrology Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sediment Deposits (B2) (Riverine)
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) Field Observations: Surface Water Present? Water Table Present? Yes No No No No No No No No No N	Orift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Other (Explain in Remarks) 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): Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	. , , ,
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Wetland Hydrology Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Orainage Patterns (B10)
Drift Deposits (B3) (Nonriverine) x Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Wetland Hydrology (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Ory-Season Water Table (C2)
x Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) 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): Wetland Hydrology (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Thin Muck Surface (C7)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) 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): Wetland Hydrology (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) 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): Wetland Hydrology (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Visible on Aerial Imagery (C
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) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Shallow Aquitard (D3)
Surface Water Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Wetland Hydrology (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	FAC-Neutral Test (D5)
Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Wetland Hydrology (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Saturation Present? Yes No x Depth (inches): Wetland Hydrology (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Saturation Present? Yes No x Depth (inches): Wetland Hydrology (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Present? Yes x No
Remarks:	
Remarks:	
≺emarks:	
containe.	

Project/Site: TL-649 Otay-San Ysidro E	Border Wood to	Steel	City/Coun	ty: Chula Vis	sta/San Diego	_Sampling Da	te: 05/22/2014
Applicant/Owner: San Diego Gas & Ele	ectric				State: CA	Sampling Po	
Investigator(s): Michael Nieto, Cailin O	Meara		Section,	Township, F	Range: T18S, R01W, Sec	24, Otay Mes	sa quadrangle
Landform (hillslope, terrace, etc.): Mesa	a		Local reli	ief (concave	, convex, none): Convex	S	Slope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'16.20"	N	Long: 116°56'21.52"W	Da	atum: NAD-83
Soil Map Unit Name: Stockpen gravell	y clay loam				NWI classification	on: Palustrine	
Are climatic / hydrologic conditions on t	he site typical fo	or this time o	f year? Yes	x N	o(If no, explain in	Remarks.)	
Are Vegetation <u>x,</u> Soil <u>,</u>	or Hydrology _	signif	ficantly disturb	ed? Yes	Are "Normal Circumstance	es" present? Y	es x No
Are Vegetation, Soil,	or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any ans	swers in Rema	arks.)
SUMMARY OF FINDINGS – Attac	ch site map s	howing sa	mpling poir	nt location	s, transects, importan	t features, e	tc.
Hydrophytic Vegetation Present?	Yes x	No	lo 4le	a Camplad	Aron		
Hydric Soil Present?	Yes x	No		ie Sampled in a Wetlan	YAS	x No	
Wetland Hydrology Present?	Yes x	No					
Remarks: Vegetation significantly dis		·S.					
Tree Stratum (Plot size:1.)	Absolute % Cover		Indicator Status	Number of Dominant Sp That Are OBL, FACW, of	pecies	2 (A)
2					Total Number of Domina		(八)
3.					Species Across All Stra		2 (B)
4.					Percent of Dominant Sp		
		0	= Total Cove	r	That Are OBL, FACW, o	or FAC:	100% (A/B)
Sapling/Shrub Stratum (Plot size:)	-					
1					Prevalence Index worl		
2.					Total % Cover of:		ultiply by:
3.					OBL species		
4.					FACW species FAC species	x2=_ x3=	
5			= Total Cove	.r	FACU species	x 3 = _ x 4 =	
Herb Stratum (Plot size:)		- Total Cove	:1	UPL species	x = _	
Polypogon monspeliensis		2	Y	FACW	Column Totals:	(A)	(B)
Festuca perennis 3.		1	<u>Y</u>	FAC	Prevalence Inde		
4.					Hydrophytic Vegetation	n Indicators:	
5.			· 		x Dominance Test		
6.		·	· · · · · · · · · · · · · · · · · · · 	-	Prevalence Index		
7. 8.					Morphological Ad	aptations1 (Pro	
-		3	= Total Cov	er	Problematic Hydr	ophytic Vegeta	ation¹ (Explain)
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric so be present, unless dist	il and wetland urbed or probl	hydrology must ematic.
		0	= Total Cove	r	Hydrophytic		
% Bare Ground in Herb Stratum	97 % Co	over of Biotic		0	Vegetation	es x	No
Remarks: Hydrophytic vegetation is pr	esent.						

Profile Desc	ription: (Describe t	o the depth need				confirm	the absence of	of indicators.)
Depth	Matrix			edox Featur		. 2	_	
(inches)	Color (moist)	<u>%</u> C	olor (moist)	<u></u> %	Type ¹	Loc²	Texture	Remarks
	-	· 						
	-	· 						
·	-	·						
							_	
				·				
	-	· 		· ——				·
							_	
	ncentration, D=Depletio					S. ²		ore Lining, RC=Root Channel, M=Matrix.
_	Indicators: (Applic	able to all LRRs			d.)			s for Problematic Hydric Soils ³ :
Histoso	` '			Redox (S5)				Muck (A9) (LRR C)
	pipedon (A2)			d Matrix (S6	•			Muck (A10) (LRR B)
	istic (A3)			Mucky Mine				ced Vertic (F18)
	en Sulfide (A4)	•		Gleyed Mat				Parent Material (TF2)
	d Layers (A5) (LRR	()		ed Matrix (F	,		Otner	(Explain in Remarks)
	uck (A9) (LRR D) d Below Dark Surfac	ο (Λ11)		Dark Surfac ed Dark Surf	` '			
	ark Surface (A12)	e (ATT)		Depression:	, ,		3Indicators	s of hydrophytic vegetation and
	Mucky Mineral (S1)		x Vernal		5 (1 0)			nd hydrology must be present,
	Gleyed Matrix (S4)		X Verriai	1 0010 (1 0)				s disturbed or problematic.
							1	alotaloga or problemation
_	Layer (if present):							
Type:								
Depth (inc	hes):						Hydric Soil P	Present? Yes x No No
Remarks: N	lo soil pit was dug du	e to the documer	nted presence	of San Dieg	o fairy shr	imp. Hyd	ric soils were a	assumed due to strong hydrophytic
vegetation a	nd hydrology indicate	ors.						
HYDROLOG	CV.							
	drology Indicators	•					Sc	econdary Indicators (2 or more required)
-	icators (minimum of		ok all that ann	lνΛ			<u>36</u>	Water Marks (B1) (Riverine)
	,	one required, one		<i>J</i> /				_ ` ' ' ` '
	e Water (A1)		Salt Cru					_ Sediment Deposits (B2) (Riverine)
	ater Table (A2)			rust (B12)	(D.40)			_ Drift Deposits (B3) (Riverine)
	ion (A3)			Invertebrate	` '			_ Drainage Patterns (B10)
	Marks (B1) (Nonrive			n Sulfide O				_ Dry-Season Water Table (C2)
	ent Deposits (B2) (No	•		I Rhizosphe	•	•	oots (C3)	_ Thin Muck Surface (C7)
	posits (B3) (Nonrive	erine)		e of Reduce			<u> </u>	_ Crayfish Burrows (C8)
	e Soil Cracks (B6)			ron Reducti		d Soils (C		_Saturation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7)		ck Surface (_Shallow Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (E	xplain in Re	emarks)			_FAC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present?	/es No _	x Depth (inc	ches):				
Water Table		es No				_		
Saturation P		es No				Wetla	and Hydrolog	y Present? Yes x No
(includes cap			· `	, <u> </u>				·
Describe Rec	orded Data (stream	gauge, monitoring	g well, aerial p	hotos, previ	ous inspec	ctions), if	available:	
Remarks:								

Project/Site: TL-649 Otay-San Ysidro Border Wood to S	Steel	City/Count	y: Chula Vis	sta/San Diego S	Sampling Date: 05/2	22/2014
Applicant/Owner: San Diego Gas & Electric				State: CA S	Sampling Point: 25	
Investigator(s): Michael Nieto, Cailin O'Meara		Section,	Township, R	Range: T18S, R01W, Sec. 24	4, Otay Mesa quadra	angle
Landform (hillslope, terrace, etc.): Mesa		Local reli	ef (concave,	, convex, none): Convex	Slope (%)): <u>0</u>
Subregion (LRR): LRR-C	Lat:	32°35'13.55"N	١	Long: 116°56'21.84"W	Datum: NA	D-83
Soil Map Unit Name: Stockpen gravelly clay loam				NWI classification:	Palustrine	
Are climatic / hydrologic conditions on the site typical for	r this time o	f year? Yes	Yes No	o(If no, explain in R	emarks.)	
Are Vegetationx,Soil, or Hydrology	signif	icantly disturbe	ed? Yes	Are "Normal Circumstances"	present? Yes x	No
Are Vegetation, Soil, or Hydrology	natur	ally problemati	ic? No	(If needed, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poin	t location	s, transects, important f	eatures, etc.	
Hydrophytic Vegetation Present? Yes x	No					
Hydric Soil Present? Yes x	No		e Sampled in a Wetlan	YAS Y	No	
Wetland Hydrology Present? Yes x	No		iii a wellan	u:		
Remarks: Vegetation significantly disturbed from acceptance of the second significant sign	S.					
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Spec		
1				That Are OBL, FACW, or F	FAC: 3	(A)
2				Total Number of Dominant Species Across All Strata:		(5)
3. 4.				Percent of Dominant Spec		(B)
4.	0	= Total Cove		That Are OBL, FACW, or F		(A/B)
Sapling/Shrub Stratum (Plot size:)		70101 0010				
1.				Prevalence Index worksl	heet:	
2.				Total % Cover of:	Multiply by:	
3.				OBL species	x 1 =	
4.				FACW species	x 2 =	
5				FAC species	x 3 =	
	0	= Total Cove	r	FACU species	x 4 =	
Herb Stratum (Plot size:)	_		E4 014/	UPL species	x 5 =	
Psilocarphus brevissimus var. brevissimus	5	Y	FACW FAC	Column Totals:	(A)	(B)
Festuca perennis Polypogon monspeliensis	5	<u> </u>	FACW	Prevalence Index =	= B/A =	
Atriplex semibaccata	3	N	FAC	Hydrophytic Vegetation	Indicators:	
5.			170	x Dominance Test is >		
6				Prevalence Index is		
7.				Morphological Adap		pportina
8.					or on a separate sh	
	20	= Total Cove	er	Problematic Hydrop	hytic Vegetation ¹ (E	xplain)
Woody Vine Stratum (Plot size:)						
1				¹ Indicators of hydric soil a be present, unless disturb		gy must
	0	= Total Cove	r	Hydrophytic		
% Bare Ground in Herb Stratum80 % Co	ver of Biotic	Crust	0	Vegetation Present? Yes	x No	
Remarks: Sampling was conducted in a vernal pool wit	hin an acce	ss road.				*
·						

		-		nt the indicator or co	onfirm th	ne absence of i	ndicators.)
Depth (inches)	Matri		Red Color (moist)	ox Features % Type ¹	Loc ²	Texture	Domarko
(inches)	Color (moist)		Color (moist)	% Type ¹	LOC	rexture	Remarks
							<u> </u>
-						-	·
							<u> </u>
	-					_	
¹ Type: C=Co	ncentration, D=Deple	etion, RM=Reduced N	Matrix, CS=Covered	or Coated Sand Grains.	² L	ocation: PL=Pore	Lining, RC=Root Channel, M=Matrix.
Hydric Soi	I Indicators: (App	licable to all LRR	s, unless otherw	ise noted.)		Indicators for	or Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy Re	dox (S5)		1 cm Mu	ick (A9) (LRR C)
Histic E	pipedon (A2)		Stripped I	Matrix (S6)		2 cm Mu	ick (A10) (LRR B)
Black H	Histic (A3)		Loamy M	ucky Mineral (F1)		Reduced	d Vertic (F18)
Hydrog	en Sulfide (A4)		Loamy Gl	eyed Matrix (F2)		Red Par	ent Material (TF2)
Stratifie	ed Layers (A5) (LR	RC)	Depleted	Matrix (F3)		Other (E	xplain in Remarks)
1 cm M	luck (A9) (LRR D)		Redox Da	rk Surface (F6)			
Deplete	ed Below Dark Sur	face (A11)	Depleted	Dark Surface (F7)			
	Oark Surface (A12)			pressions (F8)		³ Indicators of	f hydrophytic vegetation and
Sandy	Mucky Mineral (S1	1)	x Vernal Po	ols (F9)			nydrology must be present,
Sandy	Gleyed Matrix (S4)				unless di	sturbed or problematic.
Restrictive	Layer (if present):					
Type:							
Depth (inc	ches):		-			Hydric Soil Pres	sent? Yes x No
				O D: (: 1:		. ,	
	and hydrology indic		enteu presence or	San Diego fally Stilling	ір. пуші	ic solis were ass	sumed due to strong hydrophytic
vegetation a	ina nyarology maic	bators.					
HYDROLO	GY						
Wetland H	ydrology Indicate	ors:				Seco	endary Indicators (2 or more required)
Primary Inc	dicators (minimum	of one required; ch	neck all that apply)			٧	Vater Marks (B1) (Riverine)
Surface	e Water (A1)	•	Salt Crust	(B11)			sediment Deposits (B2) (Riverine)
	/ater Table (A2)		Biotic Crus				Prift Deposits (B3) (Riverine)
	tion (A3)			vertebrates (B13)			Prainage Patterns (B10)
	Marks (B1) (Nonri	vorino)		, ,			Ory-Season Water Table (C2)
	, , ,	•		Sulfide Odor (C1)	dan Dan		
l ——	ent Deposits (B2) (hizospheres along Lives (O4)	ving Roo	· /	hin Muck Surface (C7)
	eposits (B3) (Nonr			of Reduced Iron (C4)			Crayfish Burrows (C8)
l ——	e Soil Cracks (B6)			n Reduction in Tilled S	Soils (C6		saturation Visible on Aerial Imagery (C9)
Inunda	tion Visible on Aer	ial Imagery (B7)	Thin Muck	Surface (C7)			shallow Aquitard (D3)
Water-	Stained Leaves (B	39)	Other (Exp	lain in Remarks)		F	AC-Neutral Test (D5)
Field Obse	rvations:						
Surface Wa	ter Present?	Yes No	x Depth (inche	es):			
Water Table	Present?		x Depth (inche		•		
Saturation F			x Depth (inche		Wetlar	nd Hydrology F	Present? Yes x No
	pillary fringe)					, , , , ,	
		m gauge, monitori	ng well, aerial pho	tos, previous inspecti	ons), if a	vailable:	
_							
Remarks:							

Project/Site: TL-649 Otay-San Ysidro I	Border Wood to	Steel	City/Coun	ty: <u>Chula Vi</u>	sta/San Diego	_Sampling Da	ite: 05/22/201	4
Applicant/Owner: San Diego Gas & El	ectric				State: CA	_Sampling Po	int: <u>26</u>	
Investigator(s): Michael Nieto, Cailin O	'Meara		Section,	Township, F	Range: T18S, R01W, Sec	c. 24, Otay Me	sa quadrangle	÷
Landform (hillslope, terrace, etc.): Mes	а		Local reli	ief (concave	, convex, none): Convex	S	Slope (%): <u>0</u>	
Subregion (LRR): Otay Valley Hydrolog	gic Area	Lat:	32°35'12.91"N	N	Long: 116°56'21.45"W	Da	atum: NAD-83	
Soil Map Unit Name: Stockpen gravel	ly clay loam				NWI classification	on: Palustrine		
Are climatic / hydrologic conditions on t	the site typical fo	or this time o	f year? Yes	x N	o(If no, explain in	Remarks.)		
Are Vegetation x, Soil ,	or Hydrology	signif	icantly disturb	ed? Yes	Are "Normal Circumstance	es" present? Y	'es <u>x</u> No)
Are Vegetation, Soil,	or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any an	swers in Rema	arks.)	
SUMMARY OF FINDINGS – Attac	ch site map s	howing sa	mpling poir	nt location	s, transects, importan	ıt features, ε	etc.	
Hydrophytic Vegetation Present?	Yes x	No	1- 41-	. 011	A			
Hydric Soil Present?	Yes x	No		ie Sampled in a Wetlan	YAS	x No		
Wetland Hydrology Present?	Yes x	No		iii a vvctiaii	iu:			
Remarks: Vegetation significantly dis								
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work Number of Dominant Sp	pecies		
1.					That Are OBL, FACW, o		2 ((A)
2. 3.					Total Number of Domin Species Across All Stra		0 /	(D)
4.		: =			Percent of Dominant Sp		2 ((B)
<u> </u>		0	= Total Cove	r	That Are OBL, FACW,		100% ((A/B)
Sapling/Shrub Stratum (Plot size:)		10101 0010	.1				
1.	′				Prevalence Index wor	ksheet:		
2.					Total % Cover of:	Mı	ultiply by:	
3.					OBL species	x 1 =		
4					FACW species	x 2 =		
5					FAC species	x 3 =		
		0	= Total Cove	r	FACU species	x 4 = _		
Herb Stratum (Plot size:)				UPL species	x 5 = _		
Polypogon monspeliensis		1	Y	FACW	Column Totals:	(A)	(B	3)
2. Festuca perennis3.		1	Y	FAC	Prevalence Inde	ex = B/A =		
4.					Hydrophytic Vegetation	n Indicators:		
5		<u> </u>			x Dominance Test	is >50%		
6		<u></u>			Prevalence Index	(is ≤3.0 ¹		
7. 8.					Morphological Add	laptations¹ (Pro		ng
Woody Vine Stratum (Plot size:	\	2	= Total Cov	er	Problematic Hydr	ophytic Vegeta	ation¹ (Explain	ı)
12.)				¹ Indicators of hydric so be present, unless dist	oil and wetland turbed or probl	hydrology musematic.	ıst
		0	= Total Cove	r	Hydrophytic			
% Bare Ground in Herb Stratum	98 % Co	over of Biotic	Crust	0	Vegetation	es x	No	
Remarks: Sampling was conducted in	a vernal pool wi	thin an acce	ess road.		1			

Depth (inches) Color (moist) % Color (moist) % Type¹ L Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) X Vernal Pools (F9) Restrictive Layer (if present): Type: Depth (inches):	Indicat1 c2 cReiOth 3Indicat wet	Pore Lining, RC=Root Channel, M=Matrix. Tors for Problematic Hydric Soils ³ : Im Muck (A9) (LRR C) Im Muck (A10) (LRR B) Iduced Vertic (F18) Id Parent Material (TF2) Iner (Explain in Remarks) Tors of hydrophytic vegetation and land hydrology must be present,
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 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 Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Tom Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Estrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) X Vernal Pools (F9) Strictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
Histosol (A1) Histosol (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) 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) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
Histosol (A1) Histosol (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) 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) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Pestrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Tom Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Estrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Tom Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Estrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Tom Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Estrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Tom Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
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) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) 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) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
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) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) 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) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Tom Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type:	Indicat1 c2 cReiOth 3Indicat wet	ors for Problematic Hydric Soils ³ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) 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) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Pestrictive Layer (if present): Type:	1 c 2 c Rei Oth 3Indicat wet	m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks)
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 (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) X Vernal Pools (F9) Pestrictive Layer (if present): Type:	2 c Rei Oth ³ Indicat wet	m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks) cors of hydrophytic vegetation and
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 (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) X Vernal Pools (F9) Pestrictive Layer (if present): Type:	2 c Rei Oth ³ Indicat wet	m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks) cors of hydrophytic vegetation and
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) estrictive Layer (if present): Type: Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Redox Dark Surface (F7) Redox Depressions (F8) X Vernal Pools (F9)	Re Re Oth	duced Vertic (F18) d Parent Material (TF2) ner (Explain in Remarks) ors of hydrophytic vegetation and
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 (F3) Redox Dark Surface (F7) Redox Depressions (F8) x Vernal Pools (F9) estrictive Layer (if present): Type:	Re- Oth 3Indicat wet	d Parent Material (TF2) ner (Explain in Remarks) ors of hydrophytic vegetation and
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) estrictive Layer (if present): Type: Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) x Vernal Pools (F9)	Oth 3Indicat wet	ner (Explain in Remarks) ors of hydrophytic vegetation and
1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type:	³ Indicat wet	ors of hydrophytic vegetation and
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) **Type:	wet	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type:	wet	
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type:	wet	
Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type:		iand nydrology must be present,
Restrictive Layer (if present): Type:	unie	
Type:		ess disturbed or problematic.
Denth (inches):		
	Hydric Soi	Present? Yes x No
Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp		
YDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (2 or more require
Primary Indicators (minimum of one required; check all that apply)		Water Marks (B1) (Riverine)
	-	
Surface Water (A1) Salt Crust (B11)	•	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)		Drift Deposits (B3) (Riverine)
Saturation (A3) — Aquatic Invertebrates (B13)		Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livir	ng Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	. , ,	Crayfish Burrows (C8)
x Surface Soil Cracks (B6) Recent Iron Reduction in Tilled So	nils (C6)	Saturation Visible on Aerial Imagery (C
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	3113 (30)	Shallow Aquitard (D3)
<u> </u>	•	
Water-Stained Leaves (B9) Other (Explain in Remarks)		FAC-Neutral Test (D5)
ield Observations:		
urface Water Present? Yes No x Depth (inches):		
Vater Table Present? Yes No x Depth (inches):		
<u> </u>	Wetland Hydrol	ogy Present? Yes x No
		<u> </u>
ncludes capillary fringe)	ns) if available:	
includes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection		
	,,	
includes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	,,	
	,	
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection		
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection		

Project/Site: TL-649 Otay-San Ysidro E	Border Wood to	Steel	City/Coun	ty: <u>Chula Vi</u>	sta/San Diego	Sampling Date	e: 05/22/2014
Applicant/Owner: San Diego Gas & El	ectric				State: CA	Sampling Poir	nt: <u>27</u>
Investigator(s): Michael Nieto, Cailin O	'Meara		Section,	Township, F	Range: T18S, R01W, Sec	. 24, Otay Mes	a quadrangle
Landform (hillslope, terrace, etc.): Mesa	а		Local rel	ief (concave	, convex, none): Convex	SI	ope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'12.42"I	N	Long: 116°56'21.89"W	Dat	um: <u>NAD-83</u>
Soil Map Unit Name: Stockpen gravell	y clay loam				NWI classification	on: Palustrine	
Are climatic / hydrologic conditions on t	he site typical fo	or this time o	f year? Yes	x N	o(If no, explain in	Remarks.)	
Are Vegetation <u>x,</u> Soil <u>,</u>	or Hydrology	signif	ficantly disturb	ed? Yes	Are "Normal Circumstance	s" present? Ye	es <u>x</u> No
Are Vegetation, Soil,	or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any ans	swers in Remar	ks.)
SUMMARY OF FINDINGS – Attac	ch site map s	howing sa	mpling poir	nt location	s, transects, importan	t features, et	c.
Hydrophytic Vegetation Present?	Yes x	No	1- 41-	. 011	A		
Hydric Soil Present?	Yes x	No		ie Sampled in a Wetlan	YAS	No	
Wetland Hydrology Present?	Yes x	No		iii a vvcuaii	iu :		
Remarks: Vegetation significantly dis							
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant Sp		
1.					That Are OBL, FACW, o	or FAC:	3 (A)
					Total Number of Domina Species Across All Strat		
3. 4.		-	· 		Percent of Dominant Sp		3 (B)
4		0	= Total Cove	r	That Are OBL, FACW, o		100% (A/B)
Sapling/Shrub Stratum (Plot size:)		- Total Cove	i			
1.	′				Prevalence Index work	sheet:	
2.		-			Total % Cover of:	Mul	tiply by:
3.			· 		OBL species	x 1 =	
4.					FACW species	x 2 =	
5			· -		FAC species	x 3 =	
		0	= Total Cove	er	FACU species	x 4 =	
Herb Stratum (Plot size:)				UPL species	x 5 =	
Psilocarphus brevissimus var. bre	vissimus	12	<u>Y</u>	FACW	Column Totals:	(A)	(B)
2. Festuca perennis		6	Y	FAC	Prevalence Inde	x = B/A =	
3. Polypogon monspeliensis		12	Y	FACW	Lludrophytic Veretatio	n Indicators.	
4 5.		·			Hydrophytic Vegetatio		
6.		· 			Dominance Test i Prevalence Index		
7.					Morphological Ad	aptations ¹ (Pro	
8.		30	= Total Cov	er	data in Remarl	·	,
Woody Vine Stratum (Plot size:)						
1. 2.		<u></u>			¹ Indicators of hydric so be present, unless distr	il and wetland h urbed or proble	nydrology must matic.
		0	= Total Cove	er .	Hydrophytic Vegetation		
		over of Biotic		0	Present? Ye	es <u>x</u>	No
Remarks: Sampling was conducted in	a vernal pool w	ithin an acce	ess road.				

Depth	Matrix			edox Featu			i			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	e	Rema	arks
		· <u></u>								
							-			
							· 			
¹ Type: C=Con	centration, D=Depletion	n, RM=Reduce	ed Matrix, CS=Covere	d or Coated	Sand Grains.	² L	ocation: PL=	Pore Lining,	RC=Root Channe	I, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	rwise note	d.)				blematic Hydri	
Histosol	(A1)		Sandy I	Redox (S5))				9) (LRR C)	
	pipedon (A2)			d Matrix (S					10) (LRR B)	
Black Hi				Mucky Min				uced Verti		
	en Sulfide (A4)			Gleyed Ma	. ,				aterial (TF2)	
	d Layers (A5) (LRR (C)		ed Matrix (F					in Remarks)	
	ıck (A9) (LRR D)			Dark Surfa	,				•	
Depleted	d Below Dark Surfac	e (A11)	Deplete	ed Dark Sui	rface (F7)					
Thick Da	ark Surface (A12)		Redox	Depression	ns (F8)		³ Indicato	rs of hydro	ophytic vegetatio	n and
Sandy M	lucky Mineral (S1)		<u>x</u> Vernal	Pools (F9)			wetla	and hydrol	ogy must be pres	sent,
Sandy G	Gleyed Matrix (S4)						unles	ss disturbe	d or problemation	. .
Restrictive L	_ayer (if present):									
	, (
	nes): o soil pit was dug du nd hydrology indicato		umented presence	of San Die	go fairy shrii		Hydric Soil ic soils were		Yes <u>x</u> due to strong hy	Noydrophytic
Depth (inch Remarks: No vegetation ar	o soil pit was dug du nd hydrology indicate		umented presence	of San Die	go fairy shrii		,		-	
Depth (inches Remarks: No regetation are	o soil pit was dug du nd hydrology indicate	ors.	umented presence	of San Die	go fairy shrii		ic soils were	assumed	due to strong h	ydrophytic
Depth (inch Remarks: No regetation ar YDROLOG Wetland Hy	o soil pit was dug du nd hydrology indicate GY drology Indicators	ors.			go fairy shrii		ic soils were	e assumed	due to strong hy	ydrophytic or more require
Depth (inches properties of the content of the cont	o soil pit was dug dund hydrology indicate SY drology Indicators cators (minimum of	ors.	; check all that app	ly)	go fairy shrii		ic soils were	e assumed Gecondary Water I	due to strong hy / Indicators (2 c) Marks (B1) (Rive	ydrophytic or more require
Depth (inches properties) Depth (inches properties) Remarks: Novegetation and properties) Novegetation and properties Novegetati	o soil pit was dug dund hydrology indicated GY drology Indicators cators (minimum of o	ors.	; check all that app Salt Crus	ly) st (B11)	go fairy shrii		ic soils were	e assumed Secondary Water I	due to strong hy / Indicators (2 c Marks (B1) (Rive ent Deposits (B2)	or more require
Depth (inches properties) Depth (inches properties) Remarks: Novegetation and properties) Novegetation and properties Novegetati	o soil pit was dug dund hydrology indicate SY drology Indicators cators (minimum of	ors.	; check all that app Salt Crus	ly)	go fairy shrii		ic soils were	e assumed Secondary Water I	due to strong hy / Indicators (2 c) Marks (B1) (Rive	or more require
Depth (inches Penarks: Novegetation and Pena	osoil pit was dug dund hydrology indicated GY drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3)	ors. : one required	; check all that app Salt Crus Biotic Cr	ly) st (B11)			ic soils were	Secondary Water I Sedime	due to strong hy / Indicators (2 c Marks (B1) (Rive ent Deposits (B2)	or more require erine) (Riverine)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturation	o soil pit was dug du nd hydrology indicate SY rdrology Indicators cators (minimum of Water (A1) ater Table (A2)	ors. : one required	; check all that app Salt Crus Biotic Cr Aquatic	ly) st (B11) ust (B12)	es (B13)		ic soils were	Secondary Water I Sedime Drift De	I due to strong hy Indicators (2 c Marks (B1) (Rive ent Deposits (B2 eposits (B3) (Riv	or more require erine) (Riverine) erine)
Depth (inch Remarks: Novegetation are HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water M	osoil pit was dug dund hydrology indicated GY drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3)	ers. cone required	; check all that app Salt Crus Biotic Cr Aquatic I	ly) st (B11) ust (B12) Invertebrate n Sulfide C	es (B13)	np. Hydri	ic soils were	Secondary Water I Sedime Drift De	Indicators (2 companies (2 comp	or more require erine) () (Riverine) erine)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturatio Water M Sedime	o soil pit was dug dund hydrology indicators odrology Indicators cators (minimum of a Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver	crine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe	es (B13) odor (C1)	np. Hydri	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M	v Indicators (2 co Marks (B1) (Rive ent Deposits (B2) eposits (B3) (Rive ge Patterns (B10) ason Water Tab	or more require erine)) (Riverine) erine)))
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturatic Water M Sedimee	o soil pit was dug dund hydrology indicators GY drology Indicators cators (minimum of of water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver on the positis (B2) (No	crine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) nvertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) Odor (C1) eres along L	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainag Dry-Se Thin Mi	/ Indicators (2 co Marks (B1) (Rive ent Deposits (B2) eposits (B3) (Rive ge Patterns (B10) ason Water Tabluck Surface (C7)	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimer Drift Dep	o soil pit was dug dund hydrology indicators drology Indicators cators (minimum of of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver of the Composits (B2) (Nonriver of the Composits (B3) (Nonriver of the Composi	cine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) nvertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) bdor (C1) eres along L ed Iron (C4) tion in Tilled	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin Me Crayfis Saturat	/ Indicators (2 compared to the control of the cont	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimet Water M Sedimet Drift Dep x Surface Inundati	o soil pit was dug dund hydrology indicators drology Indicators cators (minimum of of other Table (A2) on (A3) darks (B1) (Nonriver of other Deposits (B2) (Nonriver of other	cine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	/ Indicators (2 compared to the compared to th	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Wa Saturatic Water M Sedimen Drift Dep x Surface Inundati Water-S	o soil pit was dug dund hydrology indicators drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver nt Deposits (B2) (Noriver soil Cracks (B6) on Visible on Aerial stained Leaves (B9)	cine)	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	ly) st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduc ron Reduct ck Surface	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	Indicators (2 company) Indicators (2 company) Marks (B1) (River) Ent Deposits (B2) Eposits (B3) (River) E	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimer Drift Dep x Surface Inundati Water-S Field Observing	do soil pit was dug dund hydrology indicators drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) wations:	crine) crine) crine) crine) drine) lmagery (B7	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Other (E	ly) st (B11) ust (B12) invertebrate n Sulfide C l Rhizosphe e of Reduc ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	Indicators (2 company) Indicators (2 company) Marks (B1) (River) Ent Deposits (B2) Eposits (B3) (River) E	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimer Drift Dep x Surface Inundati Water-S Field Observ Surface Water	do soil pit was dug dund hydrology indicators drology Indicators cators (minimum of a Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: er Present?	crine) crine) crine) crine) derine) derine) derine) derine)	Salt Crus Salt Crus Biotic Crus Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	ly) st (B11) ust (B12) nvertebrate n Sulfide C l Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov	Indicators (2 company) Indicators (2 company) Marks (B1) (River) Ent Deposits (B2) Eposits (B3) (River) E	or more require erine)) (Riverine) erine))) le (C2)
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water M Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of a Water (A1) ater Table (A2) on (A3) Idraks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial Stained Leaves (B9) Vations: er Present?	crine) crine) crine) crine) dragery (B7	Salt Crus Salt Crus Biotic Crus Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	ly) ust (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 control of the control	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inches) Remarks: Novegetation and vegetation	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Introduction (A3) Idraks (B1) (Nonriver Int Deposits (B2) (Nonriver Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver) Int De	crine) crine) crine) crine) dragery (B7	Salt Crus Salt Crus Biotic Crus Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	ly) ust (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along L ed Iron (C4) cion in Tilled (C7)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 company) Indica	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table Saturation Pr (includes cap	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Intron (A3) Idraks (B1) (Nonriver Int Deposits (B2) (No Doosits (B3) (Nonriver Int Deposits (B3) (Nonriver Int Deposits (B6) Intro Deposits (B9) Idraks (B6) Intro Deposits (B9) Intro Dep	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 control of the control	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table Saturation Pr (includes cap	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Introduction (A3) Idraks (B1) (Nonriver Int Deposits (B2) (Nonriver Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver) Int Deposits (B3) (Nonriver) Int De	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 control of the control	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table Saturation Pr (includes cap	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Intrology Indicators (Marks (B1) (Nonriver Int Deposits (B2) (Nonriver Int Deposits (B3) (Nonriver Int Dep	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 control of the control	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar IYDROLOG Wetland Hy Primary Indi Surface High Water N Sedimel Drift Dep x Surface Inundati Water-S Field Observ Surface Water Table Saturation Pr (includes cap	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Intrology Indicators (Marks (B1) (Nonriver Int Deposits (B2) (Nonriver Int Deposits (B3) (Nonriver Int Dep	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 control of the control	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C
Depth (inch Remarks: Novegetation ar HYDROLOG Wetland Hy Primary Indi Surface High Water Novegetation Water Novegetation Sedimen Drift Depoint X Surface Inundati Water-S Field Observation Water Table Saturation Provincludes cap Describe Record	o soil pit was dug dund hydrology indicated GY Idrology Indicators Cators (minimum of all Water (A1) Inter Table (A2) Intrology Indicators (Marks (B1) (Nonriver Int Deposits (B2) (Nonriver Int Deposits (B3) (Nonriver Int Dep	crine) crine) crine) crine) lmagery (B7	; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No x Depth (inc No x Depth (inc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	np. Hydr	ic soils were	Secondary Water I Sedime Drift De Drainae Dry-Se Thin M Crayfis Saturat Shallov FAC-Ne	Indicators (2 control of the control	or more require erine) (Riverine) erine) (Riverine) erine) (C2)) erial Imagery (C

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: <u>Chula Vi</u>	sta/San Diego	Sampling Date	e: 05/22/2014
Applicant/Owner: San Diego Gas & El	ectric				State: CA	Sampling Poir	nt: <u>28</u>
Investigator(s): Michael Nieto, Cailin C	'Meara		Section,	Township, F	Range: T18S, R01W, Sec.	24, Otay Mesa	a quadrangle
Landform (hillslope, terrace, etc.): Mes	а		Local rel	ief (concave	, convex, none): Convex	SI	ope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'11.74"I	N	Long: 116°56'21.93"W	Dat	tum: <u>NAD-83</u>
Soil Map Unit Name: Stockpen gravel	ly clay loam				NWI classification	n: Palustrine	
Are climatic / hydrologic conditions on	the site typical fo	or this time o	f year? Yes	x N	o(If no, explain in	Remarks.)	
Are Vegetation <u>x,</u> Soil <u>,</u>	or Hydrology	signif	icantly disturb	ed? Yes	Are "Normal Circumstance	s" present? Ye	es <u>x</u> No
Are Vegetation, Soil,	or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any ans	swers in Rema	rks.)
SUMMARY OF FINDINGS – Atta	ch site map s	howing sa	mpling poir	nt location	s, transects, importan	t features, et	c.
Hydrophytic Vegetation Present?	Yes x	No	1- 41-	- Cll	A		
Hydric Soil Present?	Yes x	No		ie Sampled in a Wetlan	YAS	No	
Wetland Hydrology Present?	Yes x	No		iii a weiai			
Remarks: Vegetation significantly dis		ts.					
Tree Stratum (Plot size:)	Absolute % Cover	· · · · · · · · · · · · · · · · · · ·	Indicator Status	Number of Dominant Sp That Are OBL, FACW, o	ecies	2 (A)
2					Total Number of Domina		(八)
3.					Species Across All Strat		2 (B)
4.					Percent of Dominant Sp		
		0	= Total Cove	r	That Are OBL, FACW, o	or FAC:	100% (A/B)
Sapling/Shrub Stratum (Plot size:)						
1					Prevalence Index work		
2.		-			Total % Cover of:		Itiply by:
3.					OBL species FACW species		
4 5.		-			FAC species	x2=_ x3=	
5		0	= Total Cove	ır	FACU species	x 4 =	
Herb Stratum (Plot size:)		- Total Cove	i	UPL species	x 5 =	
1. Salsola tragus	/	1	N	FACU	Column Totals:	(A)	(B)
2. Festuca perennis		10	Υ	FAC	Describer so le de		
3. Polypogon monspeliensis		20	Y	FACW	Prevalence Inde	x = B/A =	
4.		-			Hydrophytic Vegetatio	n Indicators:	
5.					x Dominance Test i	s >50%	
6		<u> </u>			Prevalence Index	is ≤3.0 ¹	
7. 8.		<u> </u>			Morphological Addata in Remark		
		31	= Total Cov	er	Problematic Hydro	ophytic Vegeta	tion¹ (Explain)
Woody Vine Stratum (Plot size:)						
1. 2.		-			¹ Indicators of hydric so be present, unless dist	il and wetland hurbed or proble	nydrology must ematic.
		0	= Total Cove	r	Hydrophytic		
% Bare Ground in Herb Stratum	69 % C	over of Biotic	Crust	0	Vegetation Present?	es x	No
Remarks: Sampling was conducted in	a vernal pool w	ithin an acce	ss road.				

		-		nt the indicator or co	onfirm th	ne absence of i	ndicators.)
Depth (inches)	Matri		Red Color (moist)	ox Features % Type ¹	Loc ²	Texture	Domarko
(inches)	Color (moist)		Color (moist)	% Type ¹	LOC	rexture	Remarks
							<u> </u>
-						-	·
							<u> </u>
	-					_	
¹ Type: C=Co	ncentration, D=Deple	etion, RM=Reduced N	Matrix, CS=Covered	or Coated Sand Grains.	² L	ocation: PL=Pore	Lining, RC=Root Channel, M=Matrix.
Hydric Soi	I Indicators: (App	licable to all LRR	s, unless otherw	ise noted.)		Indicators for	or Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy Re	dox (S5)		1 cm Mu	ick (A9) (LRR C)
Histic E	pipedon (A2)		Stripped I	Matrix (S6)		2 cm Mu	ick (A10) (LRR B)
Black H	Histic (A3)		Loamy M	ucky Mineral (F1)		Reduced	d Vertic (F18)
Hydrog	en Sulfide (A4)		Loamy Gl	eyed Matrix (F2)		Red Par	ent Material (TF2)
Stratifie	ed Layers (A5) (LR	RC)	Depleted	Matrix (F3)		Other (E	xplain in Remarks)
1 cm M	luck (A9) (LRR D)		Redox Da	rk Surface (F6)			
Deplete	ed Below Dark Sur	face (A11)	Depleted	Dark Surface (F7)			
	Oark Surface (A12)			pressions (F8)		³ Indicators of	f hydrophytic vegetation and
Sandy	Mucky Mineral (S1	1)	x Vernal Po	ols (F9)			nydrology must be present,
Sandy	Gleyed Matrix (S4)				unless di	sturbed or problematic.
Restrictive	Layer (if present):					
Type:							
Depth (inc	ches):		-			Hydric Soil Pres	sent? Yes x No
				O D: (: 1:		. ,	
	and hydrology indic		enteu presence or	San Diego fally Stilling	ір. пуші	ic solis were ass	sumed due to strong hydrophytic
vegetation a	ina nyarology maic	bators.					
HYDROLO	GY						
Wetland H	ydrology Indicate	ors:				Seco	endary Indicators (2 or more required)
Primary Inc	dicators (minimum	of one required; ch	neck all that apply)			٧	Vater Marks (B1) (Riverine)
Surface	e Water (A1)	•	Salt Crust	(B11)			sediment Deposits (B2) (Riverine)
	/ater Table (A2)		Biotic Crus				Prift Deposits (B3) (Riverine)
	tion (A3)			vertebrates (B13)			Prainage Patterns (B10)
	Marks (B1) (Nonri	vorino)		, ,			Ory-Season Water Table (C2)
	, , ,	•		Sulfide Odor (C1)	dan Dan		
l ——	ent Deposits (B2) (hizospheres along Lives (O4)	ving Roo	· /	hin Muck Surface (C7)
	eposits (B3) (Nonr			of Reduced Iron (C4)			Crayfish Burrows (C8)
l ——	e Soil Cracks (B6)			n Reduction in Tilled S	Soils (C6		saturation Visible on Aerial Imagery (C9)
Inunda	tion Visible on Aer	ial Imagery (B7)	Thin Muck	Surface (C7)			shallow Aquitard (D3)
Water-	Stained Leaves (B	39)	Other (Exp	lain in Remarks)		F	AC-Neutral Test (D5)
Field Obse	rvations:						
Surface Wa	ter Present?	Yes No	x Depth (inche	es):			
Water Table	Present?		x Depth (inche		•		
Saturation F			x Depth (inche		Wetlar	nd Hydrology F	Present? Yes x No
	pillary fringe)					, , , , ,	
		m gauge, monitori	ng well, aerial pho	tos, previous inspecti	ons), if a	vailable:	
_							
Remarks:							

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: <u>Chula Vi</u>	sta/San Diego	_Sampling Date	e: <u>05/22/2014</u>
Applicant/Owner: San Diego Gas & E	lectric				State: CA	_Sampling Poir	
Investigator(s): Michael Nieto, Cailin C)'Meara		Section,	Township, F	Range: T18S, R01W, Sec.	-	<u> </u>
Landform (hillslope, terrace, etc.): Mes	a				, convex, none): Convex	Slo	ope (%): <u>0</u>
Subregion (LRR): LRR-C		Lat:	32°35'11.05"l	١	Long: 116°56'21.43"W		um: NAD-83
Soil Map Unit Name: Stockpen grave	lly clay loam				NWI classification	on: Palustrine	
Are climatic / hydrologic conditions on			-				
	_				Are "Normal Circumstance		
Are Vegetation, Soil	or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any ans	swers in Remar	ks.)
SUMMARY OF FINDINGS – Atta	ch site map s	howing sa	mpling poir	nt location	s, transects, importan	t features, et	c.
Hydrophytic Vegetation Present?	Yes x	No	lo th	o Compled	Aron		
Hydric Soil Present?	Yes x	No		ie Sampled in a Wetlan	YAS	X No	
Wetland Hydrology Present?	Yes x	No	_				
Remarks: Vegetation significantly dis							
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant Sp	pecies	
1.					That Are OBL, FACW, o		(A)
2. 3.			· 		Total Number of Domina Species Across All Strat		(5)
3. 4.					Percent of Dominant Sp		(B)
4.		0	= Total Cove	ır	That Are OBL, FACW, o		100% (A/B)
Sapling/Shrub Stratum (Plot size:)		- Total Gove	•1			
1.					Prevalence Index work	sheet:	
2.		-			Total % Cover of:	Mul	tiply by:
3.			· 		OBL species	x 1 =	
4.					FACW species	x 2 =	
5			· -		FAC species	x 3 =	
		0	= Total Cove	er	FACU species	x 4 =	
Herb Stratum (Plot size:)				UPL species	x 5 =	
Salsola tragus		1	N	FACU	Column Totals:	(A)	(B)
2. Festuca perennis		<u>5</u>	Y	FAC	Prevalence Inde	x = B/A =	
3. Polypogon monspeliensis			Y	FACW	Lludraphytic Veretatio	n Indicators.	
4 5.					Hydrophytic Vegetatio		
6.			· 		Dominance Test i		
7.					Morphological Ad		
8.		13	= Total Cov	er	Problematic Hydr	•	•
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric so be present, unless dist	il and wetland h urbed or proble	nydrology must matic.
		0	= Total Cove	r	Hydrophytic		
% Bare Ground in Herb Stratum	87 % Co	over of Biotic		0	Vegetation	es <u>x</u> 1	No
Remarks: Sampling was conducted in	ı a vernal pool wi	thin an acce	ess road.				

Profile Desc	ription: (Describe t	o the depth need				confirm	the absence o	of indicators.)
Depth	Matrix			edox Featur		. 2	_	
(inches)	Color (moist)	<u>%</u> C	olor (moist)	<u></u> %	Type ¹	Loc²	Texture	Remarks
	-	· 						
	-	· 						
·	-	·						
							_	
				·				
	-	· 		· ——				·
							_	
	ncentration, D=Depletio					S. ²		ore Lining, RC=Root Channel, M=Matrix.
_	Indicators: (Applic	able to all LRRs			d.)			s for Problematic Hydric Soils ³ :
Histoso	` '			Redox (S5)				Muck (A9) (LRR C)
	pipedon (A2)			d Matrix (S6	•			Muck (A10) (LRR B)
	istic (A3)			Mucky Mine				ced Vertic (F18)
	en Sulfide (A4)	•		Gleyed Mat				Parent Material (TF2)
	d Layers (A5) (LRR	()		ed Matrix (F	,		Otner	(Explain in Remarks)
	uck (A9) (LRR D) d Below Dark Surfac	ο (Λ11)		Dark Surfac ed Dark Surf	` '			
	ark Surface (A12)	e (ATT)		Depression:	, ,		3Indicators	s of hydrophytic vegetation and
	Mucky Mineral (S1)		x Vernal		5 (1 0)			nd hydrology must be present,
	Gleyed Matrix (S4)		X Verriai	1 0010 (1 0)				s disturbed or problematic.
							1	alotaloga or problemation
_	Layer (if present):							
Type:								
Depth (inc	hes):						Hydric Soil P	Present? Yes x No No
Remarks: N	lo soil pit was dug du	e to the documer	nted presence	of San Dieg	o fairy shr	imp. Hyd	ric soils were a	assumed due to strong hydrophytic
vegetation a	nd hydrology indicate	ors.						
HYDROLOG	CV.							
	drology Indicators	•					Sc	econdary Indicators (2 or more required)
-	icators (minimum of		ok all that ann	lνΛ			<u>36</u>	Water Marks (B1) (Riverine)
	,	one required, one		<i>J</i> /				_ ` ' ' ` '
	e Water (A1)		Salt Cru					_ Sediment Deposits (B2) (Riverine)
	ater Table (A2)			rust (B12)	(D.40)			_ Drift Deposits (B3) (Riverine)
	ion (A3)			Invertebrate	` '			_ Drainage Patterns (B10)
	Marks (B1) (Nonrive			n Sulfide O				_ Dry-Season Water Table (C2)
	ent Deposits (B2) (No	•		I Rhizosphe	•	•	oots (C3)	_ Thin Muck Surface (C7)
	posits (B3) (Nonrive	erine)		e of Reduce			<u> </u>	_ Crayfish Burrows (C8)
	e Soil Cracks (B6)			ron Reducti		d Soils (C		_Saturation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7)		ck Surface (_Shallow Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (E	xplain in Re	emarks)			_FAC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present?	/es No _	x Depth (inc	ches):				
Water Table		es No				_		
Saturation P		es No				Wetla	and Hydrolog	y Present? Yes x No
(includes cap			· `	, <u> </u>				·
Describe Rec	orded Data (stream	gauge, monitoring	g well, aerial p	hotos, previ	ous inspec	ctions), if	available:	
Remarks:								

Project/Site: TL-649 Otay-San Ysidro Border Wood to S	Steel	City/County: Chula Vi	sta/San Diego	Sampling Date: <u>05/22/2014</u>
Applicant/Owner: San Diego Gas & Electric			State: CA	Sampling Point: 30
Investigator(s): Michael Nieto, Cailin O'Meara		Section, Township, F	Range: T18S, R01W, Sec	c. 24, Otay Mesa quadrangle
Landform (hillslope, terrace, etc.): Mesa		Local relief (concave	, convex, none): Convex	Slope (%): 0
Subregion (LRR): LRR-C	Lat:	32°35'10.63"N	Long: 116°56'21.48"W	Datum: NAD-83
Soil Map Unit Name: Stockpen gravelly clay loam			NWI classification	on: Palustrine
Are climatic / hydrologic conditions on the site typical fo	r this time of	year? Yes <u>x</u> N	o(If no, explain in	Remarks.)
Are Vegetation x, Soil , or Hydrology	signif	cantly disturbed? Yes	Are "Normal Circumstance	es" present? Yesx_ No
Are Vegetation, Soil, or Hydrology	natura	ally problematic? No	(If needed, explain any ans	swers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sl	nowing sa	mpling point location	s, transects, importan	t features, etc.
Hydrophytic Vegetation Present? Yes x	No	la tha Canada la d	A	
Hydric Soil Present? Yes x	No	Is the Sampledwithin a Wetlar	YAS	No
Wetland Hydrology Present? Yes x	No	Within a Wettan	iu :	
Remarks: Vegetation significantly disturbed from acco	ess road.			
VEGETATION – Use scientific names of plants		Dansinant Indicator	Deminance Test work	ahaat.
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test works Number of Dominant Sp	
1.			That Are OBL, FACW, of	
2.			Total Number of Domina	ant
3.			Species Across All Strat	ta: <u>2</u> (B)
4			Percent of Dominant Sp	
	0	= Total Cover	That Are OBL, FACW, o	DI FAC. 100% (A/B)
Sapling/Shrub Stratum (Plot size:)				
1			Prevalence Index work	
2.	-		Total % Cover of:	Multiply by:
3.			OBL species	x 1 =
			FACW species FAC species	x 2 = x 3 =
5	0	= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size:)		- Total Cover	UPL species	x 5 =
1. Polypogon monspeliensis	2	Y FACW	Column Totals:	(A) (B)
Festuca perennis		Y FAC	-	
3.			- Prevalence Inde	x = B/A =
4.			Hydrophytic Vegetatio	n Indicators:
5.			x Dominance Test i	s >50%
6.		-	Prevalence Index	is ≤3.0 ¹
7. 8.				aptations ¹ (Provide supporting ks or on a separate sheet)
Woody Vine Stratum (Plot size:	4	= Total Cover	Problematic Hydr	ophytic Vegetation ¹ (Explain)
			1 Indiantors of budget	il and wetland hydrology must
2.			be present, unless dist	urbed or problematic.
2.	0	= Total Cover	- Headman bead to	·
		- Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum96	ver of Biotic	Crust 0		es x No
Remarks: Sampling was conducted in a vernal pool wit	hin an acco	an road	1	
Remarks. Sampling was conducted in a vernal pool will	illii ali acce	SS 10au.		
Incernaines. Sampling was conducted in a vernal poor will	illii ali acce	ss road.		
Remarks. Sampling was conducted in a vernal poor will	illii aii acce	ss roau.		

		-		nt the indicator or co	onfirm th	ne absence of i	ndicators.)
Depth (inches)	Matri		Red Color (moist)	ox Features % Type ¹	Loc ²	Texture	Domarko
(inches)	Color (moist)		Color (moist)	% Type ¹	LOC	rexture	Remarks
							<u> </u>
-						-	·
							<u> </u>
	-					_	
¹ Type: C=Co	ncentration, D=Deple	etion, RM=Reduced N	Matrix, CS=Covered	or Coated Sand Grains.	² L	ocation: PL=Pore	Lining, RC=Root Channel, M=Matrix.
Hydric Soi	I Indicators: (App	licable to all LRR	s, unless otherw	ise noted.)		Indicators for	or Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy Re	dox (S5)		1 cm Mu	ick (A9) (LRR C)
Histic E	pipedon (A2)		Stripped I	Matrix (S6)		2 cm Mu	ick (A10) (LRR B)
Black H	Histic (A3)		Loamy M	ucky Mineral (F1)		Reduced	d Vertic (F18)
Hydrog	en Sulfide (A4)		Loamy Gl	eyed Matrix (F2)		Red Par	ent Material (TF2)
Stratifie	ed Layers (A5) (LR	RC)	Depleted	Matrix (F3)		Other (E	xplain in Remarks)
1 cm M	luck (A9) (LRR D)		Redox Da	rk Surface (F6)			
Deplete	ed Below Dark Sur	face (A11)	Depleted	Dark Surface (F7)			
	Oark Surface (A12)			pressions (F8)		³ Indicators of	f hydrophytic vegetation and
Sandy	Mucky Mineral (S1	1)	x Vernal Po	ols (F9)			nydrology must be present,
Sandy	Gleyed Matrix (S4)				unless di	sturbed or problematic.
Restrictive	Layer (if present):					
Type:							
Depth (inc	ches):		-			Hydric Soil Pres	sent? Yes x No
				O D: (: 1 :		. ,	
	and hydrology indic		enteu presence or	San Diego fally Stilling	ір. пуші	ic solis were ass	sumed due to strong hydrophytic
vegetation a	ina nyarology maic	bators.					
HYDROLO	GY						
Wetland H	ydrology Indicate	ors:				Seco	endary Indicators (2 or more required)
Primary Inc	dicators (minimum	of one required; ch	neck all that apply)			٧	Vater Marks (B1) (Riverine)
Surface	e Water (A1)	•	Salt Crust	(B11)			sediment Deposits (B2) (Riverine)
	/ater Table (A2)		Biotic Crus				Prift Deposits (B3) (Riverine)
	tion (A3)			vertebrates (B13)			Prainage Patterns (B10)
	Marks (B1) (Nonri	vorino)		, ,			Ory-Season Water Table (C2)
	, , ,	•		Sulfide Odor (C1)	dan Dan		
l ——	ent Deposits (B2) (hizospheres along Lives (O4)	ving Roo	· /	hin Muck Surface (C7)
	eposits (B3) (Nonr			of Reduced Iron (C4)			Crayfish Burrows (C8)
l ——	e Soil Cracks (B6)			n Reduction in Tilled S	Soils (C6		saturation Visible on Aerial Imagery (C9)
Inunda	tion Visible on Aer	ial Imagery (B7)	Thin Muck	Surface (C7)			shallow Aquitard (D3)
Water-	Stained Leaves (B	39)	Other (Exp	lain in Remarks)		F	AC-Neutral Test (D5)
Field Obse	rvations:						
Surface Wa	ter Present?	Yes No	x Depth (inche	es):			
Water Table	Present?		x Depth (inche		•		
Saturation F			x Depth (inche		Wetlar	nd Hydrology F	Present? Yes x No
	pillary fringe)					, , , , ,	
		m gauge, monitori	ng well, aerial pho	tos, previous inspecti	ons), if a	vailable:	
_							
Remarks:							

Project/Site: TL-649 Otay-San Ysidro Border Wood to St	eel	City/County	r: Chula Vis	ta/San Diego	Sampling Date:	05/22/2014
Applicant/Owner: San Diego Gas & Electric				State: CA	Sampling Point:	31
Investigator(s): Michael Nieto, Cailin O'Meara		Section, T	ownship, R	ange: T18S, R01W, Sec.	24, Otay Mesa c	quadrangle
Landform (hillslope, terrace, etc.): Mesa		Local relie	f (concave,	convex, none): Convex	Slop	oe (%): 0
Subregion (LRR): LRR-C	Lat:	32°35'9.75"N		Long: 116°56'21.86"W	Datur	n: NAD-83
Soil Map Unit Name: Stockpen gravelly clay loam				NWI classificatio	n: Palustrine	
Are climatic / hydrologic conditions on the site typical for	this time of	year? Yes _	x No	(If no, explain in	Remarks.)	
Are Vegetation x, Soil , or Hydrology	signifi	cantly disturbe	d? Yes	Are "Normal Circumstances	s" present? Yes	xNo
Are Vegetation, Soil, or Hydrology	natura	ally problemation	? No ((If needed, explain any ans	wers in Remarks	S.)
SUMMARY OF FINDINGS – Attach site map sho	owing sai	mpling point	locations	s, transects, important	features, etc.	
Hydrophytic Vegetation Present? Yes x	No	1- 41-	011	A		
Hydric Soil Present? Yes x	No		Sampled on a Wetland	Yes y	No	
Wetland Hydrology Present? Yesx	No	_ *******	Ta Wellan	u.		
Remarks: Vegetation significantly disturbed from access	ss road.					
VECETATION Has asserted to a second state of the second state of t						
VEGETATION – Use scientific names of plants.	Absolute	Dominant	Indicator	Dominance Test works	shoot:	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp		
1.				That Are OBL, FACW, o		1 (A)
2.				Total Number of Domina		
3				Species Across All Strata		1 (B)
4				Percent of Dominant Spe That Are OBL, FACW, o		100% (A/B)
_	0	= Total Cover		That Ale Obl., I AOW, O		(10070 (1007)
Sapling/Shrub Stratum (Plot size:)						
1				Prevalence Index work		.h. h
2				Total % Cover of: OBL species	Multip	
3.				FACW species	x 1 = x 2 =	
5.				FAC species	x3=	
J	0	= Total Cover		FACU species	x 4 =	
Herb Stratum (Plot size:		rotal cover		UPL species	x 5 =	
Psilocarphus brevissimus var. brevissimus	3	N	FACW	Column Totals:	(A)	(B)
2. Festuca perennis	5		FAC	Dravalance Index		
3. Polypogon monspeliensis	15	Υ	FACW	Prevalence index	x = B/A =	
4. Atriplex semibaccata	5	N	FAC	Hydrophytic Vegetation	n Indicators:	
5.				_x _ Dominance Test is	s >50%	
6.				Prevalence Index	is ≤3.0 ¹	
7. 8.				Morphological Ada data in Remark	aptations ¹ (Provid ks or on a separa	
	28	= Total Cove		Problematic Hydro	onhytic Vegetatio	n¹ (Explain)
Woody Vine Stratum (Plot size:					,p.,,	(=740)
1.				¹ Indicators of hydric soi	l and wetland hy	drology must
2.				be present, unless distu	urbed or problem	atic.
	0	= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum 72 % Cov	er of Biotic	Cruet ()	Vegetation Present? Yes	es x No	,
		-		. 7000111.		,
Remarks: Sampling was conducted in a vernal pool with	ırı an acces	ss road.				

				ent the indicator or co	onfirm the ab	sence of ind	licators.)
Depth (inches)	Matri:			edox Features	1002	Toutura	Domarko
(inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
	-					· · ·	
						· · ·	
						 -	
						 -	
				d or Coated Sand Grains.			ning, RC=Root Channel, M=Matrix.
Hydric Soi	I Indicators: (App	licable to all LRI	Rs, unless other	wise noted.)	In	dicators for	Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy I	Redox (S5)		1 cm Muck	(A9) (LRR C)
	Epipedon (A2)			d Matrix (S6)			(A10) (LRR B)
	Histic (A3)			Mucky Mineral (F1)		Reduced V	
	en Sulfide (A4)			Gleyed Matrix (F2)			t Material (TF2)
	ed Layers (A5) (LR I	R C)		d Matrix (F3)			lain in Remarks)
	luck (A9) (LRR D)	()		Dark Surface (F6)			idii ii Kemano)
	ed Below Dark Surf	ace (Δ11)		d Dark Surface (F7)			
	Dark Surface (A12)	acc (/ (11)		Depressions (F8)	3 _{lr}	ndicators of h	ydrophytic vegetation and
	Mucky Mineral (S1	١	x Vernal		"		drology must be present,
	Gleyed Matrix (S4)		X Veillai	-00is (i <i>9)</i>		-	urbed or problematic.
Sandy	Gleyeu Matrix (34)					นกเธรร นเรเเ	dibed of problematic.
Restrictive	Layer (if present)	:					
Type:							
Depth (inc	ches):		_		Hvdri	ic Soil Preser	nt? Yes x No
			_				med due to strong hydrophytic
HYDROLO	GV						
	ydrology Indicato	re·				Second	dary Indicators (2 or more required)
			book all that ann				
	dicators (minimum	one required, c		,			ter Marks (B1) (Riverine)
	e Water (A1)		Salt Crus				diment Deposits (B2) (Riverine)
High W	/ater Table (A2)		Biotic Cr	ust (B12)		Drif	t Deposits (B3) (Riverine)
Saturat	tion (A3)		Aquatic I	nvertebrates (B13)		Dra	inage Patterns (B10)
Water I	Marks (B1) (Nonriv	verine)	Hydroge	n Sulfide Odor (C1)		Dry	-Season Water Table (C2)
Sedime	ent Deposits (B2) (I	Nonriverine)		Rhizospheres along Li	vina Roots (C		n Muck Surface (C7)
	eposits (B3) (Nonri			e of Reduced Iron (C4)		· —	yfish Burrows (C8)
	e Soil Cracks (B6)	· · · · · · · · · · · · · · · · · · ·		on Reduction in Tilled	Soile (C6)		uration Visible on Aerial Imagery (C9)
	` '	al Imagent (DZ)			30lis (C0)		
	tion Visible on Aeri	0, , ,		ck Surface (C7)			allow Aquitard (D3)
Water-	Stained Leaves (B	9)	Other (E	xplain in Remarks)		FA0	C-Neutral Test (D5)
Field Obser	rvations:						
	ter Present?	Yes No	x Depth (inc	hes).			
Water Table			x Depth (inc		-		
			·	·	Watland U	ydrology Pre	ocent? Vee v Ne
Saturation F		res No	x Depth (inc	nes):	wettand n	yarology Pre	esent? Yes x No
	pillary fringe)	m dallas manita	ing well assist =	notos provious inans-ti	one) if oveiled	hlo:	
Describe Rec	corded Data (streat	n gauge, monitor	ing well, aerial p	notos, previous inspecti	ons), ir avallal	bie:	
Domarka							
Remarks:							

Project/Site: TL-649 Otay-San Ysidro Border Wood to	Steel	City/Coun	ty: Chula Vis	sta/San Diego	_Sampling Date	e: 05/22/2014	
Applicant/Owner: San Diego Gas & Electric				State: CA	Sampling Poir	nt: <u>32</u>	
Investigator(s): Michael Nieto, Cailin O'Meara		Section,	Township, R	Range: T18S, R01W, Sec	24, Otay Mes	a quadrangle	
Landform (hillslope, terrace, etc.): Vernal pool		Local reli	ef (concave,	, convex, none): Convex	SI	lope (%): 0	
Subregion (LRR): LRR-C	Lat:	32°35'8.95"N		Long: 116°56'21.49"W	Dat	tum: NAD-83	
Soil Map Unit Name: Stockpen gravelly clay loam				NWI classification	on: Palustrine		
Are climatic / hydrologic conditions on the site typical fo	r this time of	year? Yes	x No	o(If no, explain in	Remarks.)		
Are Vegetationx,Soil, or Hydrology	signifi	icantly disturb	ed? Yes	Are "Normal Circumstance	es" present? Ye	es x No	
Are Vegetation, Soil, or Hydrology	natura	ally problemat	ic? No	(If needed, explain any ans	swers in Remar	rks.)	
SUMMARY OF FINDINGS – Attach site map si	howing sa	mpling poir	t location	s, transects, importan	t features, et	ic.	
Hydrophytic Vegetation Present? Yes x	No			_			
Hydric Soil Present? Yes x	No		e Sampled in a Wetlan	Yes	x No		
Wetland Hydrology Present? Yes x	No		iii a vvetiaii	u:			
Remarks: Vegetation significantly disturbed from accellent accellent to the second significantly disturbed from accellent accellent to the second significantly disturbed from accellent accellent to the second significant s							
	Absolute	Dominant	Indicator	Dominance Test works	sheet:		
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Number of Dominant Sp		O (A)	
2.				That Are OBL, FACW, o		(A)	
3				Total Number of Domina Species Across All Strat		2 (B)	
4.				Percent of Dominant Sp	ecies	(B)	
		= Total Cove		That Are OBL, FACW, o	or FAC:	100% (A/B	3)
Sapling/Shrub Stratum (Plot size:)							
1.				Prevalence Index work	ksheet:		
2.				Total % Cover of:	Mul	Itiply by:	
3				OBL species	x 1 =		
4				FACW species	x 2 =		
5				FAC species	x 3 =		
		= Total Cove	r	FACU species	x 4 = _		
Herb Stratum (Plot size:)	_	\/	E4014/	UPL species	x 5 =		
1. Polypogon monspeliensis		Yes	FACW	Column Totals:	(A)	(B)	
2. Festuca perennis 3.		Yes	FAC	Prevalence Inde	x = B/A =		
4.				Hydrophytic Vegetation	n Indicators:		
5				_x_ Dominance Test i	is >50%		
6				Prevalence Index			
7. 8.				Morphological Addata in Remar	aptations¹ (Pro ks or on a sepa		
Woody Vine Stratum (Plot size:)	7	= Total Cov	er	Problematic Hydro	ophytic Vegeta	tion ¹ (Explain)	
1				¹ Indicators of hydric so be present, unless dist	il and wetland hurbed or proble	nydrology must ematic.	
		= Total Cove					
% Bare Ground in Herb Stratum % Co	over of Biotic		I	Hydrophytic Vegetation Present? Yes	es x	No	
Remarks: Sampling was conducted in a vernal pool wi							
, ,							

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

Depth	Matrix		Redox	Features			
(inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
							-
							-
							-
							
			Matrix, CS=Covered or		s. ² Loo		Lining, RC=Root Channel, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LR	Rs, unless otherwis	e noted.)		Indicators fo	r Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red	ox (S5)		1 cm Mu	ck (A9) (LRR C)
Histic Ep	oipedon (A2)		Stripped Ma	atrix (S6)		2 cm Mu	ck (A10) (LRR B)
Black Hi	stic (A3)		Loamy Muc	ky Mineral (F1)		Reduced	Vertic (F18)
Hydroge	n Sulfide (A4)			ed Matrix (F2)			ent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M				plain in Remarks)
	ick (A9) (LRR D)	,		Surface (F6)			,
	d Below Dark Surfa	ce (A11)		ark Surface (F7)			
	ark Surface (A12)	,		ressions (F8)		3Indicators of	hydrophytic vegetation and
	fucky Mineral (S1)		x Vernal Pool	` ,			ydrology must be present,
	Gleyed Matrix (S4)		<u> </u>	· (. ·)			sturbed or problematic.
						dinoco dic	naibea of problematic.
Restrictive L	ayer (if present):						
Type:			_				
Depth (inch	nes):				Н	ydric Soil Pres	ent? Yes x No
IYDROLOG	SY						
	drology Indicators					Seco	ndary Indicators (2 or more required
_			check all that apply)			· · · · · · · · · · · · · · · · · · ·	/ater Marks (B1) (Riverine)
	•	one required,	1.3/	44)			` ,` ,
	Water (A1)		Salt Crust (B	•			ediment Deposits (B2) (Riverine)
High Wa	ater Table (A2)		Biotic Crust (B12)			rift Deposits (B3) (Riverine)
Saturation	on (A3)		Aquatic Inve	rtebrates (B13)		D	rainage Patterns (B10)
Water M	larks (B1) (Nonrive	rine)	Hydrogen Sι	ılfide Odor (C1)		Di	ry-Season Water Table (C2)
Sedimer	nt Deposits (B2) (N	onriverine)	Oxidized Rhi	zospheres along	Living Roots	(C3) Th	nin Muck Surface (C7)
Drift Dep	oosits (B3) (Nonriv	erine)	Presence of	Reduced Iron (C4	1)	C	rayfish Burrows (C8)
	Soil Cracks (B6)	,		Reduction in Tilled	•		aturation Visible on Aerial Imagery (C9
	on Visible on Aeria	Imagery (R7)	Thin Muck S		a coc (co)		nallow Aquitard (D3)
		0 , (,					AC-Neutral Test (D5)
vvaler-S	tained Leaves (B9)		Other (Expla	in in Remarks)			AC-Neutral Test (D5)
Field Observ	vations:						
Surface Water	er Present?	Yes N	lo x Depth (inches):			
Water Table	Present?	Yes N	lo x Depth (inches):			
Saturation Pr			lo x Depth (inches		Wetland	d Hydrology P	resent? Yes x No
(includes cap				,	_	,	
		gauge, monito	oring well, aerial photo	s, previous inspe	ctions), if ava	ailable:	
	(33-,	3 - ,	-,			
Remarks:							

Project/Site: TL-649 Otay-San Ysidro Border Wood to	Steel	City/Count	y: Chula Vis	sta/San Diego	_Sampling Dat	te: <u>05/22/201</u>	14
Applicant/Owner: San Diego Gas & Electric				State: CA	Sampling Poi	nt: <u>33</u>	
Investigator(s): Michael Nieto, Cailin O'Meara		Section,	Township, R	Range: T18S, R01W, Sec	24, Otay Mes	sa quadrangle	е
Landform (hillslope, terrace, etc.): Mesa		Local reli	ef (concave,	, convex, none): Convex	S	lope (%): 0	
Subregion (LRR): LRR-C	Lat:	32°35'8.33"N		Long: 116°56'21.44"W	Dat	tum: <u>NAD-83</u>	}
Soil Map Unit Name: Stockpen gravelly clay loam				NWI classification	on: Palustrine		
Are climatic / hydrologic conditions on the site typical for	or this time of	f year? Yes	x No	o(If no, explain in	Remarks.)		
Are Vegetationx,Soil, or Hydrology _	signif	icantly disturbe	ed? Yes	Are "Normal Circumstance	s" present? Y	es <u>x</u> No	o
Are Vegetation, Soil, or Hydrology _	natura	ally problemati	c? No	(If needed, explain any ans	swers in Rema	ırks.)	
SUMMARY OF FINDINGS – Attach site map s	howing sa	mpling poin	t location	s, transects, importan	t features, e	tc.	
Hydrophytic Vegetation Present? Yes x	No						
Hydric Soil Present? Yes x	No		e Sampled in a Wetlan	Yes	x No		
Wetland Hydrology Present? Yesx	No		iii a vvetiaii	u:			
Remarks: Vegetation significantly disturbed from account of the second significant significant of the second significant significant significant significant significant significant signi							
Tree Stratum (Plot size:)	Absolute	Dominant Species?	Indicator	Dominance Test work			
1.	% Cover	Species?	Status	Number of Dominant Sp That Are OBL, FACW, of		2 ((A)
2.				Total Number of Domina		((A)
3.				Species Across All Stra		2 ((B)
4.		= Total Cove	r	Percent of Dominant Sp That Are OBL, FACW, o			(A/B)
Sapling/Shrub Stratum (Plot size:)							
1				Prevalence Index worl			
2.				Total % Cover of:		ıltiply by:	
3.				OBL species	x 1 = _		
				FACW species FAC species	x2=_ x3=		
5		= Total Cove	-	FACU species	x 3 = x 4 =		
Herb Stratum (Plot size:)		- Total Cove		UPL species	x 5 =		
1. Polypogon monspeliensis	7	Yes	FACW	Column Totals:	(A)		В)
Festuca perennis	2	Yes	FAC				,
3.	<u> </u>			Prevalence Inde	x = B/A =		
4.	-			Hydrophytic Vegetation	n Indicators:		
5.				x Dominance Test	s >50%		
6.				Prevalence Index	is ≤3.0 ¹		
7. 8.				Morphological Ad data in Remar	aptations¹ (Proks or on a sepa		ing
Woody Vine Stratum (Plot size:)	9	= Total Cove	er	Problematic Hydr	ophytic Vegeta	ıtion¹ (Explain	า)
1				¹ Indicators of hydric so be present, unless dist	il and wetland lurbed or proble	hydrology mu ematic.	ust
		= Total Cove	r	Hydrophytic Vegetation			
	over of Biotic			Present? Ye	es x	No	
Remarks: Sampling was conducted in a vernal pool wi	itnin an acce	ss road.					

Profile Desc	ription: (Describe t	o the depth nee				confirm	the absence	of indicators.)	
Depth	Matrix			edox Featu		. 9	_		
(inches)	Color (moist)	<u> </u>	olor (moist)	%	Type ¹	Loc²	Texture	Remarks	
	-	·							
	-	· -							
·	-	· 							
	-								
·	-	· 							
							_		
	ncentration, D=Depletio					S		Pore Lining, RC=Root Channel, M=Matrix	K .
Hydric Soil	Indicators: (Applic	able to all LRRs	, unless othe	rwise noted	d.)		Indicator	rs for Problematic Hydric Soils ³ :	
Histoso	` '			Redox (S5)				Muck (A9) (LRR C)	
	pipedon (A2)			d Matrix (S6	•			Muck (A10) (LRR B)	
	istic (A3)			Mucky Mine				iced Vertic (F18)	
	en Sulfide (A4)	_,		Gleyed Mat				Parent Material (TF2)	
	d Layers (A5) (LRR	C)		ed Matrix (F	,		Othe	r (Explain in Remarks)	
	uck (A9) (LRR D) d Below Dark Surfac	- (044)		Dark Surfac	` '				
	ark Surface (A12)	e (ATT)		ed Dark Sur Depression	. ,		3Indicator	s of hydrophytic vegetation and	
	Mucky Mineral (S1)		x Vernal		S (1 0)			nd hydrology must be present,	
	Gleyed Matrix (S4)		X Verriai	1 0013 (1 3)				s disturbed or problematic.	
							1	o alotalizou oi problomatioi	
_	Layer (if present):								
Type:									
Depth (inc	hes):						Hydric Soil F	Present? Yes <u>x</u> No _	
Remarks: N	lo soil pit was dug du	e to the documer	nted presence	of San Dieg	go fairy shr	rimp. Hyd	dric soils were	assumed due to strong hydrophytic	C
vegetation a	nd hydrology indicate	ors.							
HYDROLOG	CV.								
	drology Indicators	•					9	econdary Indicators (2 or more re	aquired)
-	icators (minimum of		ok all that ann	ds ()			<u> </u>	Water Marks (B1) (Riverine)	<u>equireuj</u>
	,	one required, one		,,				_ ` ` ` ` ` `	-\
	e Water (A1)		Salt Cru					_ Sediment Deposits (B2) (Rivering	ie)
	ater Table (A2)			rust (B12)	(5.46)		_	Drift Deposits (B3) (Riverine)	
	ion (A3)			Invertebrate	` '		_	Drainage Patterns (B10)	
	Marks (B1) (Nonrive			n Sulfide O			_	Dry-Season Water Table (C2)	
	ent Deposits (B2) (No	*		Rhizosphe	•	•	oots (C3)	_ Thin Muck Surface (C7)	
	posits (B3) (Nonrive	erine)		e of Reduce				_ Crayfish Burrows (C8)	
	Soil Cracks (B6)			ron Reducti		d Soils (C	C6)	_ Saturation Visible on Aerial Imag	ery (C9)
	ion Visible on Aerial	Imagery (B7)		ck Surface (, ,			_ Shallow Aquitard (D3)	
Water-S	Stained Leaves (B9)		Other (E	xplain in Re	emarks)		_	FAC-Neutral Test (D5)	
Field Obser	vations:								
Surface Wat		/es No _	x Depth (inc	ches):					
Water Table		res No		-		_			
Saturation P		res No				Wetl	and Hydrolog	gy Present? Yes x No	
(includes cap						_	,,,,,,	,, <u></u> <u>.</u>	
	orded Data (stream	gauge, monitorin	g well, aerial p	hotos, previ	ious insped	ctions), if	available:		
Remarks:									

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: <u>Chula Vi</u>	sta/San Diego	Sampling Date	e: <u>05/22/2014</u>
Applicant/Owner: San Diego Gas & E	lectric				State: CA	Sampling Poin	nt: <u>34</u>
Investigator(s): Michael Nieto, Cailin C)'Meara		Section,	Township, F	Range: <u>T18S, R01W, Sec. 3</u>	24, Otay Mesa	quadrangle
Landform (hillslope, terrace, etc.): Mes	а		Local reli	ef (concave	, convex, none): Convex	Slo	ope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'9.75"N		Long: 116°56'21.86"W	Dat	um: <u>NAD-83</u>
Soil Map Unit Name: Stockpen gravel	lly clay loam				NWI classification	n: Palustrine	
Are climatic / hydrologic conditions on	the site typical fo	or this time o	f year? Yes	xN	o(If no, explain in I	Remarks.)	
Are Vegetation <u>x,</u> Soil	or Hydrology	signif	ficantly disturb	ed? Yes	Are "Normal Circumstances	" present? Ye	es <u>x</u> No
Are Vegetation, Soil,	or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any answ	wers in Remar	ks.)
SUMMARY OF FINDINGS – Atta	ch site map s	howing sa	mpling poir	nt location	s, transects, important	features, et	c.
Hydrophytic Vegetation Present?	Yes x	No	1- 41-	. 011	A		
Hydric Soil Present?	Yes x	No		e Sampled in a Wetlan	YAS Y	No	
Wetland Hydrology Present?	Yes x	No		iii a vvctiaii	iu:		
Remarks: Vegetation significantly dis							
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works Number of Dominant Spe		
1					That Are OBL, FACW, or		3 (A)
					Total Number of Domina		
3.					Species Across All Strata		3 (B)
4					Percent of Dominant Spe That Are OBL, FACW, or		100% (A/B)
Sapling/Shrub Stratum (Plot size:	,	0	= Total Cove	r			,
1.					Prevalence Index works	sheet:	
2		·			Total % Cover of:		tiply by:
3.		-			OBL species		<u>.,,,</u>
4.		-			FACW species		
5.		-			FAC species	x 3 =	
		0	= Total Cove	r	FACU species	x 4 =	
Herb Stratum (Plot size:)				UPL species	x 5 =	
1. Psilocarphus brevissimus var. bre	evissimus	3	No	FACW	Column Totals:	(A)	(B)
2. Festuca perennis		5	Yes	FAC	Prevalence Index	= B/A =	
3. Polypogon monspeliensis		10	Yes	FACW		-	
4. Atriplex semibaccata		5	Yes	FAC	Hydrophytic Vegetation		
5		. .	· 		x Dominance Test is		
6.			· 		Prevalence Index i		
7. 8.		. .	· 		Morphological Ada		
o		23	= Total Cov	or	Problematic Hydro	·	,
Woody Vine Stratum (Plot size:)		- 10tai 00V	Ci	Froblematic Hydro	priylic vegelal	lion (Explain)
1.					¹ Indicators of hydric soil be present, unless distu	and wetland h	nydrology must matic.
2		0	= Total Cove	r	Hydrophytic	<u> </u>	
% Bare Ground in Herb Stratum	77 % Co	over of Biotic	Crust	0	Vegetation Present? Yes	sx1	No
Remarks: Sampling was conducted in	a vernal pool w	ithin an acce	ess road.				
. -	•						

Depth Mark Color (moist) % Color (moist) % Type Loc Todure Remarks			-		ent the indicator or co	onfirm the abs	sence of ind	icators.)
"Type: C=Concentration, D=Deptetion, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A3) Histosci (A3) Loany Mucky Mineral (F1) Hydrogon Sulfide (A4) Loany Mucky Mineral (F1) Loany Gleybed Matrix (F2) Hydrogon Sulfide (A4) Loany Gleybed Matrix (F2) Hydrogon Sulfide (A4) Loany Gleybed Matrix (F2) Hold (A6) (LRR B) Reduced Vertic (F18) Hydrogon Sulface (A12) Hold (A6) (LRR B) Depleted Batov Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A11) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleybed Matrix (F2) Pept (inches) Hydrogon Matrix (F2) Hydric Soil Present? Hydric Soil Matrix (F3) Water Marks (B1) (Monriverine) Hydrogon Sulface Matrix (S1) Depleted Soil Cracks (B1) Hydrogon Sulface (A12) Dirit Deposits (B3) (Nonriverine) Hydrogon Sulface Matrix (S1) Dirit Deposits (B3) (Nonriverine) Hydrogon Sulface Matrix (S1) Dirit Deposits (B3) (Nonriverine) Hydrogon Sulface Matrix (S1) Dirit Deposits (B3) (Nonriverine) Dirit Deposits (B3) (Nonriverine) Hydrogon Sulface Matrix (S1) Dirit Deposits (B3) (Nonriverine) Dirit Deposits (B3) (Nonriverine) Dirit Deposits (B3) (Nonriverine) Hydrogon Sulface Matrix (S1) Dirit Deposits (B3) (Nonriverine) Dirit Deposits (B3) (Nonriverine) Hydrogon Sulface Matrix (S1) Dirit Deposits (B3) (Nonriverine) Hydrogon Sulface Matrix (B1) Dirit Deposits (B3) (Nonriverine) Dirit Dep	•						ovturo	Domarko
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)	(inches)	Color (moist)	%	Color (moist)		LOC I	exture	Remarks
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histo (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Statified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Surface (A12) Restrictive Layer (if present): Type: Depth (inches): Pepth (inches): Pepth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrophytic vegetation and hydrology indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Water Marks (B1) (Riverine) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Derift Deposits (B2) (Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sallow Aquitard (D3) Incudates capital pringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		-				<u></u>		
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histo (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Statified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Surface (A12) Restrictive Layer (if present): Type: Depth (inches): Pepth (inches): Pepth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrophytic vegetation and hydrology indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Water Marks (B1) (Riverine) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Derift Deposits (B2) (Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sallow Aquitard (D3) Incudates capital pringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)	-	· -						
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histo (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Statified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Surface (A12) Restrictive Layer (if present): Type: Depth (inches): Pepth (inches): Pepth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrophytic vegetation and hydrology indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Water Marks (B1) (Riverine) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Derift Deposits (B2) (Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sallow Aquitard (D3) Incudates capital pringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histo (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Statified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Surface (A12) Restrictive Layer (if present): Type: Depth (inches): Pepth (inches): Pepth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrophytic vegetation and hydrology indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Water Marks (B1) (Riverine) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Derift Deposits (B2) (Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sallow Aquitard (D3) Incudates capital pringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	-							
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histo (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Statified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Surface (A12) Restrictive Layer (if present): Type: Depth (inches): Pepth (inches): Pepth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrophytic vegetation and hydrology indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Water Marks (B1) (Riverine) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Derift Deposits (B2) (Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Nonriverine) Presence of Reduced fron (C4) Saturation (A3) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sallow Aquitard (D3) Incudates capital pringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	1		 		 	2.		
Histosol (A1) Sandy Redox (S5)								
Histic Epipedon (A2)	-		licable to all LRF		•	Ind		•
Black Histic (A3)	Histoso	ol (A1)					_1 cm Muck	(A9) (LRR C)
Hydrogen Sulfide (A4)	Histic E	pipedon (A2)					_2 cm Muck	(A10) (LRR B)
Stratified Layers (A5 (LRR C)	Black F	Histic (A3)		Loamy	Mucky Mineral (F1)			` ,
1 cm Muck (A9) (LRR D)	Hydrog	en Sulfide (A4)		Loamy	Gleyed Matrix (F2)		Red Parent	t Material (TF2)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrophytic vegetation and hydrology indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dirft Deposits (B2) (Nonriverine) Dirft Deposits (B3) (Nonriverine) Priesence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Versul Dark (Stream gauge, monitoring well, aerial photos, previous inspections), if available:	Stratifie	ed Layers (A5) (LR I	R C)	Deplete	d Matrix (F3)		Other (Expl	lain in Remarks)
Thick Dark Surface (A12) Redox Depressions (F8) And Mucky Mineral (S1) X Vernal Pools (F9) And Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Dept	1 cm M	luck (A9) (LRR D)		Redox I	Dark Surface (F6)			
Sandy Mucky Mineral (S1) x Vernal Pools (F9) 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 documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrophytic vegetation and hydrology indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Shallow Aquitard (D3) Water Abdre Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Surface Corded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Deplete	ed Below Dark Surf	ace (A11)	Deplete	d Dark Surface (F7)			
Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrophytic vegetation and hydrology indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Sufface Water (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Solized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) X Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Thick D	Oark Surface (A12)		Redox I	Depressions (F8)	³ Inc	dicators of hy	ydrophytic vegetation and
Restrictive Layer (if present): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes _ x _ No	Sandy	Mucky Mineral (S1)	x Vernal I	Pools (F9)		wetland hyd	Irology must be present,
Type:	Sandy	Gleyed Matrix (S4)		<u> </u>			unless distu	rbed or problematic.
Type:	Restrictive	Laver (if present)	•					
Depth (inches):	_	Layer (ii present)	•					
Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrophytic vegetation and hydrology indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Soltic Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Drainage Pat		1 \		_			0 11 0	10
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) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B2) (Riverine) Sediment Deposits (B2) (Riverine) Mater Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Y	Depth (inc	cnes):		_		Hydric	c Soil Presen	it? Yes X NO
Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (minimum of one required; check all that apply) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) x Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Yes X No Yes X No	HYDROLO	CV						
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Aquatic Invertebrates (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No One Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			re:				Socond	lary Indicators (2 or more required)
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High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) X Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Water-Stained Leaves (B9) Dther (Explain in Remarks) 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)		`	or one required, c		,			
Saturation (A3)								
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Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Post (Inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No No Depth (inches): Saturation Present? Yes No No Depth (inches): Saturation Present? Yes No No Saturation Present? Yes No No Saturation Present? Yes No Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No No Saturation Present? Yes No No Saturation Present? Yes No Saturation Present? Yes No No Saturation Present? Yes No Saturation Present? Yes No	Water I	Marks (B1) (Nonri v	verine)	Hydroge	n Sulfide Odor (C1)		Dry-	-Season Water Table (C2)
x Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) 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): Wetland Hydrology Present? Yes x No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sedime	ent Deposits (B2) (I	Nonriverine)	Oxidized	Rhizospheres along Li	ving Roots (C3	3) Thin	n Muck Surface (C7)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) 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) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drift De	eposits (B3) (Nonri	verine)	Presence	e of Reduced Iron (C4)		Cray	yfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) 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) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	x Surface	e Soil Cracks (B6)		Recent I	on Reduction in Tilled	Soils (C6)	Satu	uration Visible on Aerial Imagery (C9)
Water-Stained Leaves (B9) Other (Explain in Remarks) 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): Wetland Hydrology Present? Yes x _ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Inunda	tion Visible on Aeri	al Imagery (B7)			, ,		
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) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			0 , , ,					. , ,
Surface Water Present? Yes No _x _ Depth (inches): Water Table Present? Yes No _x _ Depth (inches): Saturation Present? Yes No _x _ Depth (inches): Wetland Hydrology Present? Yes x No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Ctailled Edaved (Et	-,		- Apiair ii r torrianto)			7.104.14. 1001 (20)
Water Table Present? Yes No _x _Depth (inches): Saturation Present? Yes No _x _Depth (inches): Wetland Hydrology Present? Yes x _No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Obser	rvations:						
Saturation Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes x No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						<u>.</u>		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table	e Present?	Yes No	x Depth (inc	hes):	_		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation F	Present?	Yes No	x Depth (inc	hes):	Wetland Hy	drology Pre	sent? Yes x No
Remarks:	Describe Red	corded Data (strear	m gauge, monitor	ing well, aerial pl	notos, previous inspecti	ons), if availab	le:	
Remarks:								
REIIIIINS.	Domorko							
	Remarks.							

Project/Site: TL-649 Otay-San Ysidro Border Wood to S	Steel	City/County: Cl	hula Vista/San Diego	Sampling Date: <u>05/22/2014</u>
Applicant/Owner: San Diego Gas & Electric			State: CA	Sampling Point: 35
Investigator(s): Michael Nieto, Cailin O'Meara		Section, Town	nship, Range: T18S, R01W, Sec	c. 24, Otay Mesa quadrangle
Landform (hillslope, terrace, etc.): Vernal pool		Local relief (co	oncave, convex, none): Convex	Slope (%): 0
Subregion (LRR): LRR-C	Lat:	32°35'6.95"N	Long: 116°56'21.40"W	Datum: NAD-83
Soil Map Unit Name: Stockpen gravelly clay loam			NWI classification	on: Palustrine
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes x	No(If no, explain in	Remarks.)
Are Vegetation x, Soil , or Hydrology	signifi	cantly disturbed?	Yes Are "Normal Circumstance	es" present? YesxNo
Are Vegetation , Soil , or Hydrology	natura	ally problematic?	No (If needed, explain any ans	swers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling point lo	cations, transects, importan	t features, etc.
Hydrophytic Vegetation Present? Yes x	No			
Hydric Soil Present? Yes x	No		mpled Area Yes Wetland?	x No
Wetland Hydrology Present? Yesx	No		wetiana:	
Remarks: Vegetation significantly disturbed from acce	ss road.			
VEGETATION – Use scientific names of plants				
Tree Stratum (Plot size:)	Absolute % Cover		icator Dominance Test works	
1.	70 00701	Орескоз:	Number of Dominant Sp That Are OBL, FACW, of	
2.			Total Number of Domina	
3.			Species Across All Stra	
4.			Percent of Dominant Sp	pecies
		= Total Cover	That Are OBL, FACW, o	or FAC:100%(A/B)
Sapling/Shrub Stratum (Plot size:)				
1			Prevalence Index worl	ksheet:
2.			Total % Cover of:	Multiply by:
3			OBL species	x 1 =
4			FACW species	x 2 =
5			FAC species	x 3 =
		= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size:)			UPL species	x 5 =
1. Polypogon monspeliensis	6		ACW Column Totals:	(A)(B)
2. Festuca perennis			Prevalence Inde	x = B/A =
3. Salsola tragus	1	No F	ACU Hardranhadia Vanatatia	n Indicators
5.			Hydrophytic Vegetatio	
6.			x Dominance Test	
7			Prevalence Index	aptations ¹ (Provide supporting
8.				ks or on a separate sheet)
o	9	= Total Cover		ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		Total Gover	Froblematic riyur	opriytic vegetation (Explain)
			¹ Indicators of hydric so	il and wetland hydrology must
2.			be present, unless dist	urbed or problematic.
		= Total Cover	Hydrophytic	
			Vegetation	
% Bare Ground in Herb Stratum	ver of Biotic	Crust	Present? Y	es x No
Remarks: Sampling was conducted in a vernal pool wit	hin an acce	ss road.		

Profile Desc	ription: (Describe t	o the depth nee				confirm	the absence	of indicators.)	
Depth	Matrix			edox Featu		. 9	_		
(inches)	Color (moist)	<u> </u>	olor (moist)	%	Type ¹	Loc²	Texture	Remarks	
	-	·							
	-	· -							
·	-	· 							
	-								
·	-	· 							
							_		
	ncentration, D=Depletio					S		Pore Lining, RC=Root Channel, M=Matrix	K .
Hydric Soil	Indicators: (Applic	able to all LRRs	, unless othe	rwise noted	d.)		Indicator	rs for Problematic Hydric Soils ³ :	
Histoso	` '			Redox (S5)				Muck (A9) (LRR C)	
	pipedon (A2)			d Matrix (S6	•			Muck (A10) (LRR B)	
	istic (A3)			Mucky Mine				iced Vertic (F18)	
	en Sulfide (A4)	_,		Gleyed Mat				Parent Material (TF2)	
	d Layers (A5) (LRR	C)		ed Matrix (F	,		Othe	r (Explain in Remarks)	
	uck (A9) (LRR D) d Below Dark Surfac	- (044)		Dark Surfac	` '				
	ark Surface (A12)	e (ATT)		ed Dark Sur Depression	. ,		3Indicator	s of hydrophytic vegetation and	
	Mucky Mineral (S1)		x Vernal		S (1 0)			nd hydrology must be present,	
	Gleyed Matrix (S4)		X Verriai	1 0013 (1 3)				s disturbed or problematic.	
							1	o alotalizou oi problomatioi	
_	Layer (if present):								
Type:									
Depth (inc	hes):						Hydric Soil F	Present? Yes <u>x</u> No _	
Remarks: N	lo soil pit was dug du	e to the documer	nted presence	of San Dieg	go fairy shr	rimp. Hyd	dric soils were	assumed due to strong hydrophytic	C
vegetation a	nd hydrology indicate	ors.							
HYDROLOG	CV.								
	drology Indicators	•					9	econdary Indicators (2 or more re	aquired)
-	icators (minimum of		ok all that ann	ds ()			<u> </u>	Water Marks (B1) (Riverine)	<u>equireuj</u>
	,	one required, one		,,				_ ` ` ` ` ` `	-\
	e Water (A1)		Salt Cru					_ Sediment Deposits (B2) (Rivering	ie)
	ater Table (A2)			rust (B12)	(5.46)		_	Drift Deposits (B3) (Riverine)	
	ion (A3)			Invertebrate	` '		_	Drainage Patterns (B10)	
	Marks (B1) (Nonrive			n Sulfide O			_	Dry-Season Water Table (C2)	
	ent Deposits (B2) (No	*		Rhizosphe	•	•	oots (C3)	_ Thin Muck Surface (C7)	
	posits (B3) (Nonrive	erine)		e of Reduce				_ Crayfish Burrows (C8)	
	Soil Cracks (B6)			ron Reducti		d Soils (C	C6)	_ Saturation Visible on Aerial Imag	ery (C9)
	ion Visible on Aerial	Imagery (B7)		ck Surface (, ,			_ Shallow Aquitard (D3)	
Water-S	Stained Leaves (B9)		Other (E	xplain in Re	emarks)		_	FAC-Neutral Test (D5)	
Field Obser	vations:								
Surface Wat		/es No _	x Depth (inc	ches):					
Water Table		res No		-		_			
Saturation P		res No				Wetl	and Hydrolog	gy Present? Yes x No	
(includes cap						_	,,,,,,	,, <u></u> <u>.</u>	
	orded Data (stream	gauge, monitorin	g well, aerial p	hotos, previ	ious insped	ctions), if	available:		
Remarks:									

Project/Site: TL-649 Otay-San Ysidro E	Border Wood to	Steel	City/Coun	ty: <u>Chula Vi</u> s	sta/San Diego	_Sampling Date	e: <u>05/22/2014</u>
Applicant/Owner: San Diego Gas & Ele	ectric				State: CA	_Sampling Poin	nt: <u>36</u>
Investigator(s): Michael Nieto, Cailin O	'Meara		Section,	Township, F	Range: T18S, R01W, Sec	c. 24, Otay Mesa	a quadrangle
Landform (hillslope, terrace, etc.): Mesa	a		Local rel	ief (concave	, convex, none): Convex	Slo	ope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'3.64"N		Long: 116°56'21.84"W	Date	um: NAD-83
Soil Map Unit Name: Stockpen gravell	y clay loam				NWI classification	on: Palustrine	
Are climatic / hydrologic conditions on t	he site typical fo	or this time o	f year? Yes	x No	o(If no, explain in	Remarks.)	
Are Vegetation <u>x,</u> Soil <u>,</u>	or Hydrology	signif	icantly disturb	ed? Yes	Are "Normal Circumstance	es" present? Ye	es x No
Are Vegetation, Soil,	or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any ans	swers in Remar	ks.)
SUMMARY OF FINDINGS – Attac	ch site map s	howing sa	mpling poir	nt location	s, transects, importan	t features, et	с.
Hydrophytic Vegetation Present?	Yes x	No	1- 41	0 1 1	A		
Hydric Soil Present?	Yes x	No		ie Sampled iin a Wetlan	YAS	x No	
Wetland Hydrology Present?	Yes x	No		iii a vvetiaii	iu :		
Remarks: Vegetation significantly dist							
		Absolute	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp		
1.					That Are OBL, FACW, o		(A)
2. 3.					Total Number of Domina Species Across All Strat		O (D)
4.		.			Percent of Dominant Sp		3 (B)
		-	= Total Cove	ar	That Are OBL, FACW, o		100% (A/B)
Sapling/Shrub Stratum (Plot size:)		Total Gove	•1			
1.	′				Prevalence Index worl	ksheet:	
2.		-			Total % Cover of:	Mul	tiply by:
3.		-			OBL species	x 1 =	
4		_			FACW species	x 2 =	
5					FAC species	x 3 =	
			= Total Cove	er	FACU species	x 4 =	
Herb Stratum (Plot size:)	_		540	UPL species	x 5 =	
1. Festuca perennis		5	Yes	FAC	Column Totals:	(A)	(B)
 Polypogon monspeliensis Spergularia sp. 		- <u>5</u> 3	Yes	FACW FACW	Prevalence Inde	x = B/A =	
 Spergularia sp. Psilocarphus brevissimus var. bre 	viccimuc	2	Yes No	FACW	Hydrophytic Vegetatio	n Indicators:	
5.	VISSIIIIUS		INU	FACVV			
6					x Dominance Test in Prevalence Index		
7.					Morphological Ad	aptations ¹ (Prov	
8		15	= Total Cov	er	data in Remar Problematic Hydr	ks or on a sepa	
Woody Vine Stratum (Plot size:)		10101 001	O.	i Toblematic Hydr	opriylic vegetat	ion (Explain)
1	′				¹ Indicators of hydric so be present, unless dist	il and wetland h urbed or proble	nydrology must matic.
<u>. </u>			= Total Cove	er	Hydrophytic		
% Bare Ground in Herb Stratum	% C	over of Biotic	Crust		Vegetation Present?	es <u>x</u> 1	No
Remarks: Sampling was conducted in	a vernal pool w	ithin an acce	ess road.				

Profile Descrip Depth	Matrix	(Re	edox Featu	res				
(inches)	Color (moist)	%	Cold	or (moist)	%	Type ¹	Loc ²	– Texture		Remarks
	Goldi (iliolot)					.) 0				1.0
								_		
			-							
Type: C=Conce	entration, D=Deplet	ion. RM=Red	uced Matri	ix. CS=Covere	ed or Coated	Sand Grain	s. 2	Location: PL=P	ore Lining. RC=	Root Channel, M=Matrix.
•	ndicators: (Appl						·			natic Hydric Soils ³ :
-	`	ioabic to ai	- Livito, c			•				-
Histosol (A			•		Redox (S5)				Muck (A9) (LI	
	pedon (A2)		•		d Matrix (Se	•			Muck (A10) (I	•
Black Hist	` '				Mucky Min				ced Vertic (F1	,
	Sulfide (A4)				Gleyed Ma				Parent Materia	` '
	Layers (A5) (LRF	(C)			ed Matrix (F	,		Other	(Explain in R	emarks)
	k (A9) (LRR D)				Dark Surfac	` '				
	Below Dark Surfa	ace (A11)			ed Dark Sur			2		
	k Surface (A12)				Depression	s (F8)				tic vegetation and
	ıcky Mineral (S1)			x Vernal	Pools (F9)					must be present,
Sandy Gle	eyed Matrix (S4)							unless	s disturbed or	problematic.
Restrictive La	yer (if present):									
_	, (
Type:).							Lludria Cail E	Propont?	Voc. v. No.
Depth (inche		due to the do	ocumente	ed presence	of San Die	go fairy sh	rimp. Hyd	Hydric Soil F		Yes x No to strong hydrophytic
Depth (inche Remarks: No egetation and	soil pit was dug o	due to the do	ocumente	ed presence	of San Die	go fairy sh	rimp. Hyd	,		· · · · · · · · · · · · · · · · · · ·
Depth (inche Remarks: No egetation and	soil pit was dug o	ators.	ocumente	ed presence	of San Die	go fairy sh	rimp. Hyd	ric soils were	assumed due	to strong hydrophytic
Depth (inche Remarks: No egetation and YDROLOG) Wetland Hydi	soil pit was dug of the soil p	rs:				go fairy sh	rimp. Hyd	ric soils were	assumed due	to strong hydrophytic
Depth (inche Remarks: No regetation and YDROLOG) Wetland Hydroperimary Indica	soil pit was dug of I hydrology indicators (minimum cators (mi	rs:		k all that app	oly)	go fairy sh	rimp. Hyd	ric soils were	assumed due econdary Ind Water Mark	icators (2 or more request (B1) (Riverine)
Depth (inche Remarks: No regetation and YDROLOGY) Wetland Hydromary Indica Surface W	soil pit was dug of I hydrology indicators rology Indicators (minimum of Vater (A1)	rs:		k all that app Salt Crus	oly) st (B11)	go fairy sh	rimp. Hyd	ric soils were	econdary Ind Water Mark Sediment D	icators (2 or more requires (B1) (Riverine)
Depth (inche Remarks: No regetation and YDROLOGY Wetland Hydr Primary Indica Surface W High Wate	rology Indicators (minimum ovater (A1) er Table (A2)	rs:		k all that app Salt Crus Biotic Cr	ly) st (B11) ust (B12)		rimp. Hyd	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi	icators (2 or more requires (B1) (Riverine) eposits (B2) (Riverine) tts (B3) (Riverine)
Depth (inche Remarks: No regetation and YDROLOG) Wetland Hydromary Indica Surface W	rology Indicators (minimum ovater (A1) er Table (A2)	rs:		k all that app Salt Crus Biotic Cr	oly) st (B11)		rimp. Hyd	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa	icators (2 or more requises (B1) (Riverine) eposits (B2) (Riverine) atts (B3) (Riverine) atterns (B10)
Depth (inche Remarks: No regetation and Primary Indica Surface W High Wate Saturation	rology Indicators (minimum ovater (A1) er Table (A2)	rs: of one requir		k all that app Salt Crus Biotic Cr Aquatic I	ly) st (B11) ust (B12)	es (B13)	rimp. Hyd	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa	icators (2 or more requires (B1) (Riverine) eposits (B2) (Riverine) tts (B3) (Riverine)
Primary Indica Surface W High Wate Saturation Water Ma	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3)	rs: of one requirerine)	ed; check - - -	k all that app Salt Crus Biotic Cr Aquatic I	ly) st (B11) ust (B12) Invertebrate	es (B13) dor (C1)		ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa	icators (2 or more requise (B1) (Riverine) eposits (B2) (Riverine) atterns (B10) Water Table (C2)
Primary Indica Surface W High Water Ma Sediment	rology Indicators (minimum of Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriv Deposits (B2) (N	rs: of one requirerine)	ed; check - - -	< all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	ly) st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe	es (B13) dor (C1) eres along	Living Ro	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S	icators (2 or more requises (B1) (Riverine) eposits (B2) (Riverine) atterns (B10) a Water Table (C2) Surface (C7)
Primary Indica Surface W High Water Ma Surfine Surface W	rology Indicator (Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriv Deposits (B2) (Nonriv osits (B3) (Nonriv	rs: of one requirerine)	ed; check - - -	s all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduce	es (B13) dor (C1) eres along ed Iron (C4	Living Ro	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu	icators (2 or more requises (B1) (Riverine) eposits (B2) (Riverine) atterns (B10) a Water Table (C2) Surface (C7) rrows (C8)
Primary Indica Saturation Water Ma Sediment Drift Depot	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) (Nonriv Deposits (B2) (Nonriv Soil Cracks (B6)	rs: of one requir erine) Nonriverine verine)	ed; check - - - -) _ -	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I	ly) st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct	es (B13) dor (C1) eres along ed Iron (C4	Living Ro	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \	icators (2 or more requises (B1) (Riverine) reposits (B2) (Riverine) reposits (B3) (Riverine) reposits (B4) (Riverine) reposits (B5) (Riverine) reposits (B6) (Riverine) reposits (B6) (Riverine) reposits (B7) (Riverine) re
Primary Indication Water Ma Saturation Water Ma Sediment Drift Depo	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) white (B1) (Nonriv Deposits (B2) (Nonriv Soil Cracks (B6) in Visible on Aeria	rs: erine) Nonriverine verine)	ed; check - - - -) _ -	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	oly) st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct ron Reduct ck Surface	es (B13) dor (C1) eres along ed Iron (C4 ion in Tiller (C7)	Living Ro	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \ Shallow Aqu	icators (2 or more requises (B1) (Riverine) deposits (B2) (Riverine) detterns (B10) detterns (B10) detterns (B10) detterns (B10) detterns (C2) detterns (C3) detterns (C4) detterns (C5) detterns (C5) detterns (C6) detterns (C7) detterns (C8) detterns (C8) detterns (C8)
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Primary Indica Saturation Water Ma Sediment Drift Depo X Surface S Inundation Water-Sta	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) (Nonriv Deposits (B2) (Nonriv Goil Cracks (B6) in Visible on Aeria ained Leaves (B9)	rs: erine) Nonriverine verine)	ed; check - - - -) _ -	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	oly) st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct ron Reduct ck Surface	es (B13) dor (C1) eres along ed Iron (C4 ion in Tiller (C7)	Living Ro	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \ Shallow Aqu	icators (2 or more requises (B1) (Riverine) deposits (B2) (Riverine) detterns (B10) detterns (B10) detterns (B10) detterns (B10) detterns (C2) detterns (C3) detterns (C4) detterns (C5) detterns (C5) detterns (C6) detterns (C7) detterns (C8) detterns (C8) detterns (C8)
Primary Indica Surface W High Water Ma Sediment Drift Depo X Surface S Inundation Water-Sta	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) (Nonrivolations (B3) (Nonrivolations (B3) (Nonrivolations (B4) (Nonrivolations (B4) (Nonrivolations (B4) (Nonrivolations (B4) (Nonrivolations (B5)	rs: erine) Nonriverine verine)	ed; check - - - -) - - 37) -	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	ly) st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) dor (C1) eres along ed Iron (C4 ion in Tiller (C7)	Living Ro	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \ Shallow Aqu	icators (2 or more requises (B1) (Riverine) deposits (B2) (Riverine) detterns (B10) detterns (B10) detterns (B10) detterns (B10) detterns (C2) detterns (C3) detterns (C4) detterns (C5) detterns (C5) detterns (C6) detterns (C7) detterns (C8) detterns (C8) detterns (C8)
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Primary Indica Surface W High Water Ma Sediment Drift Depo X Surface S Inundation Water-Sta Field Observa Surface Water Vater Table Presented on Presented Servers Surface Pre	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) wrks (B1) (Nonrivational Cracks (B6) in Visible on Aeria ained Leaves (B9) in Present?	erine) Nonriverine verine) al Imagery (I	ed; check 37) - No x No x	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct ck Surface xplain in Re	es (B13) dor (C1) eres along ed Iron (C4 ion in Tiller (C7)	Living Ro 1) d Soils (C	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \ Shallow Aqu	icators (2 or more requises (B1) (Riverine) deposits (B2) (Riverine) detterns (B10) detterns (B10) detterns (B10) detterns (B10) detterns (C2) detterns (C3) detterns (C4) detterns (C5) detterns (C5) detterns (C6) detterns (C7) detterns (C8) detterns (C8) detterns (C8)
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Primary Indicates Saturation Water Masser Saurface Saurface Surface Su	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) wrks (B1) (Nonrivational Cracks (B6) in Visible on Aeria ained Leaves (B9) in Present?	erine) Nonriverine verine) al Imagery (I	ed; check 37) - No x No x No x	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct ck Surface xplain in Re ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Ro 4) d Soils (C	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \ Shallow Aqu	icators (2 or more requises (B1) (Riverine) deposits (B2) (Riverine) determs (B10) determs (B10) determs (B10) determs (B10) determs (C2) determs (C3) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C9) determs (C
Depth (inche Remarks: No vegetation and Vegetation	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) (Nonriv Deposits (B2) (Nonriv Soil Cracks (B6) in Visible on Aeria ained Leaves (B9) entions: Present? resent? sent? lary fringe)	erine) Nonriverine verine) al Imagery (I	ed; check 37) - No x No x No x	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct ck Surface xplain in Re ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Ro 4) d Soils (C	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \ Shallow Aqu	icators (2 or more requises (B1) (Riverine) deposits (B2) (Riverine) determs (B10) determs (B10) determs (B10) determs (B10) determs (C2) determs (C3) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C9) determs (C
Depth (inche Remarks: No vegetation and Vegetation	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) (Nonriv Deposits (B2) (Nonriv Soil Cracks (B6) in Visible on Aeria ained Leaves (B9) entions: Present? resent? sent? lary fringe)	erine) Nonriverine verine) al Imagery (I	ed; check 37) - No x No x No x	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct ck Surface xplain in Re ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Ro 4) d Soils (C	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \ Shallow Aqu	icators (2 or more requises (B1) (Riverine) deposits (B2) (Riverine) determs (B10) determs (B10) determs (B10) determs (B10) determs (C2) determs (C3) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C9) determs (C
Primary Indication Saturation Water Ma Sediment Drift Depo X Surface S Inundation Water-Sta Field Observa Surface Water Water Table Posaturation Presincludes capill escribe Recon	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) (Nonriv Deposits (B2) (Nonriv Soil Cracks (B6) in Visible on Aeria ained Leaves (B9) entions: Present? resent? sent? lary fringe)	erine) Nonriverine verine) al Imagery (I	ed; check 37) - No x No x No x	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct ck Surface xplain in Re ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Ro 4) d Soils (C	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \ Shallow Aqu	icators (2 or more requises (B1) (Riverine) deposits (B2) (Riverine) determs (B10) determs (B10) determs (B10) determs (B10) determs (C2) determs (C3) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C9) determs (C
Primary Indication Saturation Water Ma Sediment Drift Depo X Surface S Inundation Water-Sta Field Observa Surface Water Vater Table Posaturation Presincludes capill escribe Recon	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) urks (B1) (Nonriv Deposits (B2) (Nonriv Soil Cracks (B6) in Visible on Aeria ained Leaves (B9) entions: Present? resent? sent? lary fringe)	erine) Nonriverine verine) al Imagery (I	ed; check 37) - No x No x No x	Salt Crus Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) Invertebrate n Sulfide O I Rhizosphe e of Reduct ck Surface xplain in Re ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Ro 4) d Soils (C	ric soils were	econdary Ind Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Thin Muck S Crayfish Bu Saturation \ Shallow Aqu	icators (2 or more requises (B1) (Riverine) deposits (B2) (Riverine) determs (B10) determs (B10) determs (B10) determs (B10) determs (C2) determs (C3) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C8) determs (C9) determs (C

Project/Site: TL-649 Otay-San Ysidro Border Wood to S	Steel	City/County	: Chula Vis	sta/San Diego Sampling Date: 05/22/2014
Applicant/Owner: San Diego Gas & Electric				State: CA Sampling Point: 37
Investigator(s): Michael Nieto, Cailin O'Meara		Section, T	ownship, R	Range: T18S, R01W, Sec. 24, Otay Mesa quadrangle
Landform (hillslope, terrace, etc.): Mesa		Local relie	f (concave,	, convex, none): Convex Slope (%): 0
Subregion (LRR): LRR-C	Lat:	32°35'3.63"N		Long: 116°56'21.46"W Datum: NAD-83
Soil Map Unit Name: Stockpen gravelly clay loam				NWI classification: Palustrine
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes	x No	o(If no, explain in Remarks.)
Are Vegetationx,Soil, or Hydrology	signifi	cantly disturbed	d? Yes	Are "Normal Circumstances" present? Yesx_ No
Are Vegetation, Soil, or Hydrology	natura	ally problemation	? No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling point	location	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No			
Hydric Soil Present? Yes x	No		Sampled	Yes x No
Wetland Hydrology Present? Yes x	No	— Withii	n a Wetlan	<u> </u>
Remarks: Vegetation significantly disturbed from acce	ss road.			
The state of the s				
VEGETATION – Use scientific names of plants				
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 00101	_ороско.	Otatao	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2.			-	Total Number of Dominant
3.				Species Across All Strata: 3 (B)
4.				Percent of Dominant Species
		= Total Cover		That Are OBL, FACW, or FAC: 67% (A/B)
Sapling/Shrub Stratum (Plot size:)				
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species 0 x 1 = 0
4.				FACW species 4.5 x 2 = 9
5				FACU species
Herb Stratum (Plot size:)		= Total Cover		UPL species 2.5 x 5 = 12.5
1. Polypogon monspeliensis	5	Yes	FACW	Column Totals: 9.5 (A) 32.5 (B)
Atriplex semibaccata	3	Yes	FAC	(1) <u>02.0</u> (2)
3. Avena barbata	3	Yes	UPL	Prevalence Index = B/A = 3.4
4.				Hydrophytic Vegetation Indicators:
5				x Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7.				Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
	11	= Total Cove	r	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum % Co	ver of Biotic	Cruet		Vegetation Present? Yes x No
		-		1 65 A NO
Remarks: Sampling was conducted in a vernal pool wit	nın an acce	ss road.		

Profile Desc	ription: (Describe t	o the depth nee				confirm	the absence	of indicators.)	
Depth	Matrix			edox Featu		. 9	_		
(inches)	Color (moist)	<u> </u>	olor (moist)	%	Type ¹	Loc²	Texture	Remarks	
	-	·							
	-	· -							
·	-	· 							
	-								
·	-	· 							
							_		
	ncentration, D=Depletio					S		Pore Lining, RC=Root Channel, M=Matrix	K .
Hydric Soil	Indicators: (Applic	able to all LRRs	, unless othe	rwise noted	d.)		Indicator	rs for Problematic Hydric Soils ³ :	
Histoso	` '			Redox (S5)				Muck (A9) (LRR C)	
	pipedon (A2)			d Matrix (S6	•			Muck (A10) (LRR B)	
	istic (A3)			Mucky Mine				iced Vertic (F18)	
	en Sulfide (A4)			Gleyed Mat				Parent Material (TF2)	
	d Layers (A5) (LRR	C)		ed Matrix (F	,		Othe	r (Explain in Remarks)	
	uck (A9) (LRR D) d Below Dark Surfac	- (044)		Dark Surfac	` '				
	ark Surface (A12)	e (ATT)		ed Dark Sur Depression	. ,		3Indicator	s of hydrophytic vegetation and	
	Mucky Mineral (S1)		x Vernal		S (1 0)			nd hydrology must be present,	
	Gleyed Matrix (S4)		X Verriai	1 0013 (1 3)				s disturbed or problematic.	
							1	o alotalizou oi problomatioi	
_	Layer (if present):								
Type:									
Depth (inc	hes):						Hydric Soil F	Present? Yes <u>x</u> No _	
Remarks: N	lo soil pit was dug du	e to the documer	nted presence	of San Dieg	go fairy shr	rimp. Hyd	dric soils were	assumed due to strong hydrophytic	C
vegetation a	nd hydrology indicate	ors.							
HYDROLOG	CV.								
	drology Indicators	•					9	econdary Indicators (2 or more re	aquired)
-	icators (minimum of		ok all that ann	ds ()			<u> </u>	Water Marks (B1) (Riverine)	<u>equireuj</u>
	,	one required, one		,,				_ ` ` ` ` ` `	-\
	e Water (A1)		Salt Cru					_ Sediment Deposits (B2) (Rivering	ie)
	ater Table (A2)			rust (B12)	(5.46)		_	Drift Deposits (B3) (Riverine)	
	ion (A3)			Invertebrate	` '		_	Drainage Patterns (B10)	
	Marks (B1) (Nonrive			n Sulfide O			_	Dry-Season Water Table (C2)	
	ent Deposits (B2) (No	*		Rhizosphe	•	•	oots (C3)	_ Thin Muck Surface (C7)	
	posits (B3) (Nonrive	erine)		e of Reduce				_ Crayfish Burrows (C8)	
	Soil Cracks (B6)			ron Reducti		d Soils (C	C6)	_ Saturation Visible on Aerial Imag	ery (C9)
	ion Visible on Aerial	Imagery (B7)		ck Surface (, ,			_ Shallow Aquitard (D3)	
Water-S	Stained Leaves (B9)		Other (E	xplain in Re	emarks)		_	FAC-Neutral Test (D5)	
Field Obser	vations:								
Surface Wat		/es No _	x Depth (inc	ches):					
Water Table		res No		-		_			
Saturation P		res No				Wetl	and Hydrolog	gy Present? Yes x No	
(includes cap						_	,,,,,,,	,, <u></u> <u>.</u>	
	orded Data (stream	gauge, monitorin	g well, aerial p	hotos, previ	ious insped	ctions), if	available:		
Remarks:									

Project/Site: TL-649 Otay-San Ysidro Border Wood to	Steel	City/Coun	ty: <u>Chula Vis</u>	ta/San Diego	Samp	ling Date	: 05/22/2	2014
Applicant/Owner: San Diego Gas & Electric				State: CA	Samp	ling Point	t: <u>38</u>	
Investigator(s): Michael Nieto, Cailin O'Meara		Section,	Township, R	ange: T18S, R01W, S	Sec. 24, O	tay Mesa	quadran	ngle
Landform (hillslope, terrace, etc.): Vernal pool		Local reli	ief (concave,	convex, none): Conve	х	Slo	pe (%):	0
Subregion (LRR): LRR-C	Lat:	32°35'2.18"N		Long: 116°56'21.90"	<i>N</i>	Datu	ım: <u>NAD-</u>	83
Soil Map Unit Name: Stockpen gravelly clay loam				NWI classific	ation: Pal	ustrine		
Are climatic / hydrologic conditions on the site typical for	r this time of	f year? Yes	x No	(If no, explain	ı in Remar	ks.)		
Are Vegetationx,Soil, or Hydrology _	signif	icantly disturb	ed? Yes	Are "Normal Circumsta	nces" pres	ent? Yes	s <u>x</u>	No
Are Vegetation, Soil, or Hydrology	natur	ally problemat	ic? No ((If needed, explain any	answers ir	n Remark	(s.)	
SUMMARY OF FINDINGS – Attach site map s	howing sa	mpling poir	nt locations	s, transects, import	ant featu	ıres, etc).	
Hydrophytic Vegetation Present? Yes x	No	la th	a Cammia d	A				
Hydric Soil Present? Yes x	No		ie Sampled . in a Wetland	Yes	x I	No		
Wetland Hydrology Present? Yesx	_No	_						
Remarks: Vegetation is mostly non-native due to distribute vegetation in nearby undisturbed vernal pools. VEGETATION – Use scientific names of plant	s.			_			,	
<u>Tree Stratum</u> (Plot size:) 1.	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant That Are OBL, FACV	Species		1	(A)
2. 3.				Total Number of Don Species Across All S	ninant		3	(B)
4.				Percent of Dominant			<u> </u>	(D)
		= Total Cove	er	That Are OBL, FACV	√, or FAC:		33%	(A/B)
Sapling/Shrub Stratum (Plot size:)								
1.				Prevalence Index w	orksheet:			
2.				Total % Cover of	:	Multi	ply by:	_
3.				OBL species	0	x 1 =	0	_
4				FACW species	4.5	x 2 =	9	_
5				FAC species		x 3 =	3	=
		= Total Cove	r	FACU species	_	x 4 =	8	_
Herb Stratum (Plot size:)	4	V	E4 0\4/	' ===		x 5 =	12.5	
1. Polypogon monspeliensis	4	Yes	FACW	Column Totals:	9.5	(A)	32.5	_(B)
Sonchus oleraceous Erodium cicutarium	2 2	Yes Yes	UPL FACU	Prevalence Ir	idex = B/A	= 3.4		_
Erodium dedianum Festuca perennis	1	No	FAC	Hydrophytic Vegeta	tion India	eatore:		
5. Psilocarphus brevissimus var. brevissimus	0.5	No	FACW	Dominance Te				
6. Chamaesyce sp.	0.5	No	UPL	Prevalence Inc				
7.				Morphological			ide sunn	ortina
8.				data in Ren				
	10	= Total Cov	er	x Problematic H	vdrophytic	Vegetati	on¹ (Expl	ain)
Woody Vine Stratum (Plot size:)					, -	3	- ()	,
1 2.				¹ Indicators of hydric be present, unless of	soil and w disturbed c	vetland hy or problen	ydrology natic.	must
		= Total Cove	er	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum % Co	over of Biotic	Crust		Present?	Yes_x	<u> </u>	lo	
Remarks: Sampling was conducted in a vernal pool wi	thin an acce	ss road. Hydro	ophytic veget	tation assumed based o	on nearby	undisturb	ped verna	al pools.

Depth Madrox Redox Features Todar Todare Remarks	Profile Descr	iption: (Describe t	o the depth	needed to docum	ent the ind	icator or	confirm	the absence of	ndicators.)
Type: CscOorgentration. De-beyeldon. RM-Reduced Matrix. CSs-Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Histic Epipedon (A2) Sistraped Matrix (S8) Loamy Mucky Mineral (F1) Hydrogo Suffice (A4) Loamy Mucky Mineral (F1) Hydrogo Suffice (A5) Loamy Mucky Mineral (F1) Hydrogo Suffice (A6) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogo Suffice (A7) Loamy Gleyed Matrix (F2) John Muck (M10) (LRR D) Reduced Vertic (F18) Hydrogo Suffice (A7) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (A12) Redox Dear Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Pepth (inches): Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators. Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators: Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators: Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators: Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators: Hydric Soil Present? Yes x No Reconstitution Reduction in Titled Soils (C6) Restriction (A3) Restriction (A3) Restrictive Layer (B4) Restrictive Layer	Depth						2	_	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Redox Depressions (F8) Sandy Mucky Mineral (F1) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Sulfy Mineral (S1) Water Marks (B1) (Riverine) Dirit Deposits (B2) (Riverine) Dirit Deposits (B2) (Norriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Norriverine) Presence of Reduced Iron (C4) Caryfish Burrows (C6) Salturation Visible on Aerial Imagery (S7) Shallow Augurator (C3) Shallow Augu	(inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> %	Type'	Loc²	Texture	Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Redox Depressions (F8) Sandy Mucky Mineral (F1) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Sulfy Mineral (S1) Water Marks (B1) (Riverine) Dirit Deposits (B2) (Riverine) Dirit Deposits (B2) (Norriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Norriverine) Presence of Reduced Iron (C4) Caryfish Burrows (C6) Salturation Visible on Aerial Imagery (S7) Shallow Augurator (C3) Shallow Augu									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Redox Depressions (F8) Sandy Mucky Mineral (F1) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Sulfy Mineral (S1) Water Marks (B1) (Riverine) Dirit Deposits (B2) (Riverine) Dirit Deposits (B2) (Norriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Norriverine) Presence of Reduced Iron (C4) Caryfish Burrows (C6) Salturation Visible on Aerial Imagery (S7) Shallow Augurator (C3) Shallow Augu									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Loamy Gleyed Matrix (F2) Think Dark Surface (A12) Stratified Layers (A5) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Study Mineral (S1) Water Marks (B1) (Riverine) Dirit Deposits (B2) (Riverine) Dirit Deposits (B2) (Riverine) Dirit Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Caryfish Burrows (C6) Salturation Visible on Aerial Imagery (S7) Inin Muck Surface (C7) Shallow Surface (C7) Shallow Augitard (C3) Shallow Study S									
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1 cm Muck (A9) (LRR D)		, ,	C)		-				` '
Depleted Below Dark Surface (A11)			•,		`	,			
Thick Dark Surface (A12)			ce (A11)	Deplete	d Dark Surf	ace (F7)			
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Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes _x _ No	Sandy M	ucky Mineral (S1)		x Vernal F	ools (F9)			wetland	hydrology must be present,
Type:	Sandy G	leyed Matrix (S4)						unless d	isturbed or problematic.
Type: Depth (inches): Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Marks (B1) (Riverine) Saturation (A3) Salt Crust (B12) Saturation (A3) Drift Deposits (B3) (Riverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No x Depth (inches): Water Barks (B1) (Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Restrictive L	ayer (if present):							
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Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observ	ations:							
Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			Yes 1	No x Depth (inc	nes):				
Saturation Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes x No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table F	Present?					_		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Pro	esent?			-		Wetla	and Hydrology	Present? Yes x No
	(includes cap	illary fringe)			,		_		
Remarks:	Describe Reco	rded Data (stream	gauge, monit	oring well, aerial ph	otos, previ	ous insped	ctions), if	available:	
Remarks:									
remars.	Domestic:								
	Remarks:								

Applicant/Owner: San Diego Gas & Electric					State:	CA Sam	oling Poir	nt: <u>39</u>	
Investigator(s): Michael Nieto, Cailin O'Meara			Section,	Township, R	ange: <u>T18S, R01\</u>	N, Sec. 24, 0	Otay Mes	a quadrar	ngle
Landform (hillslope, terrace, etc.): Mesa			Local reli	ef (concave,	convex, none): Co	nvex	Sle	ope (%):	0
Subregion (LRR): LRR-C		Lat:	32°35'1.06"N		Long: 116°56'21.	44"W	Dat	um: NAD-	-83
Soil Map Unit Name: Stockpen gravelly clay loar	n				NWI class	sification: Pa	lustrine		
Are climatic / hydrologic conditions on the site typ	ical for this	s time of	year? Yes	x No	(If no, exp	olain in Rema	arks.)		
Are Vegetationx,Soil, or Hydrold	ogy	signifi	cantly disturbe	ed? Yes A	Are "Normal Circum	stances" pre	sent? Ye	es x	No
Are Vegetation, Soil, or Hydrold	ogy	natura	ally problemati	ic? No (If needed, explain a	any answers	in Remar	ks.)	
SUMMARY OF FINDINGS – Attach site m	ap show	ing sa	mpling poin	t locations	s, transects, imp	ortant feat	ures, et	c.	
Hydrophytic Vegetation Present? Yes	x No		la 4h	- Commissi	A				
Hydric Soil Present? Yes	x No			e Sampled <i>i</i> in a Wetland	Y	es x	No		
Wetland Hydrology Present? Yes	x No		_	a rrottant					
Remarks: Vegetation is mostly non-native due t vegetation in nearby undisturbed vernal pools. VEGETATION – Use scientific names of		nice non	i access road.					n nydropi	Tytic
<u>Tree Stratum</u> (Plot size:) 1.		Solute Cover	Dominant Species?	Indicator Status	Number of Domir That Are OBL, FA	ant Species		1	(4)
2.					Total Number of I	•	·	1	(A)
3.					Species Across A			2	(B)
4.					Percent of Domin			- 00/	
			= Total Cove	r	That Are OBL, FA	ACW, or FAC	:	50%	(A/B)
Sapling/Shrub Stratum (Plot size:)								
1					Prevalence Inde		t:		
2.					Total % Cove			tiply by:	_
3.					OBL species	0	x1=_	0	_
4					FACW species	5	x 2 =	10	_
5			T-t-LO		FAC species FACU species	0	x 3 = x 4 =	0	_
Herb Stratum (Plot size:)	_		= Total Cove	r	UPL species	3	x 5 =	15	_
1. Spergularia sp.		5	Yes	FACW	Column Totals:	8	(A)	25	(B)
Sonchus oleraceous		3	Yes	UPL	_				_(=)
3.					Prevalenc	e Index = B/	A = <u>3.125</u>		<u> </u>
4.			·		Hydrophytic Veg	getation Indi	cators:		
5.			·			Test is >50°			
6.					Prevalence	Index is ≤3.	0 ¹		
7.					Morphologi	cal Adaptatio	ons¹ (Pro	vide supp	orting
8.					data in f	Remarks or o	n a sepa	rate shee	t)
Woody Vine Stratum (Plot size:	, —	8	= Total Cove	er	x_ Problemati	c Hydrophyti	c Vegetat	ion ¹ (Exp	lain)
1. 2.	 				¹ Indicators of hybe present, unle				must
			= Total Cove	r	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum	% Cover	of Biotic	Crust		Present?	Yes	x	No	
Remarks: Sampling was conducted in a vernal p	ool within	an acce	ss road. Hydro	phytic veget	ation assumed und	er normal cir	cumstand	ces.	

Depth Madrox Redox Features Todar Todare Remarks	Profile Descr	iption: (Describe t	o the depth	needed to docum	ent the ind	icator or	confirm	the absence of	ndicators.)
Type: CscOorgentration. De-beyeldon. RM-Reduced Matrix. CSs-Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Histic Epipedon (A2) Sistraped Matrix (S8) Loamy Mucky Mineral (F1) Hydrogo Suffice (A4) Loamy Mucky Mineral (F1) Hydrogo Suffice (A5) Loamy Mucky Mineral (F1) Hydrogo Suffice (A6) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogo Suffice (A7) Loamy Gleyed Matrix (F2) John Muck (M10) (LRR D) Reduced Vertic (F18) Hydrogo Suffice (A7) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (A12) Redox Dear Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Pepth (inches): Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators. Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators: Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators: Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators: Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators: Hydric Soil Present? Yes x No Reconstitution Reduction in Titled Soils (C6) Restriction (A3) Restriction (A3) Restrictive Layer (B4) Restrictive Layer	Depth						2	_	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Redox Depressions (F8) Sandy Mucky Mineral (F1) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Sulfy Mineral (S1) Water Marks (B1) (Riverine) Dirit Deposits (B2) (Riverine) Dirit Deposits (B2) (Norriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Norriverine) Presence of Reduced Iron (C4) Caryfish Burrows (C6) Salturation Visible on Aerial Imagery (S7) Shallow Augurator (C3) Shallow Augu	(inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> %	Type'	Loc²	Texture	Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy (Cleyed Matrix (F2) A Redox Depressions (F8) Sandy Mucky Mineral (F1) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Sulfy Mineral (S1) Water Marks (B1) (Riverine) Dirit Deposits (B2) (Riverine) Dirit Deposits (B2) (Norriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Norriverine) Presence of Reduced Iron (C4) Caryfish Burrows (C6) Salturation Visible on Aerial Imagery (S7) Shallow Augurator (C3) Shallow Augu									
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Histosol (A1) Sandy Redox (\$5)		<u> </u>		-			S		
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) To m Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S8) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators. Hydrology Indicators: Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Salt Crust (B11) Salt Crust (B12) Drift Deposits (B3) (Nonriverine) Hydrologo Sulter Nonriverine) Surface Secondary Indicators (C2) (Riverine) Drint Deposits (B3) (Nonriverine) Drint Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Sediment Deposits (B3) (Nonriverine) Sediment Deposits	-		able to all Li			ı. <i>)</i>			•
Black Histic (A3)						:)			
Hydrogen Sulfide (Ayers (A5) (LRR C)									
Stratified Layers (AS (LRR C)		` '			-				` ,
1 cm Muck (A9) (LRR D)		, ,	C)		-				` '
Depleted Below Dark Surface (A11)			•,		`	,			
Thick Dark Surface (A12)			ce (A11)	Deplete	d Dark Surf	ace (F7)			
Sandy Mucky Mineral (S1) x Vernal Pools (F9) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes x No	Thick Da	rk Surface (A12)	,					³ Indicators o	f hydrophytic vegetation and
Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes _x _ No	Sandy M	ucky Mineral (S1)		x Vernal F	ools (F9)			wetland	hydrology must be present,
Type:	Sandy G	leyed Matrix (S4)						unless d	isturbed or problematic.
Type: Depth (inches): Hydric Soil Present? Yes x No Remarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Hydric soils were assumed due to strong hydrology indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Marks (B1) (Riverine) Saturation (A3) Salt Crust (B12) Saturation (A3) Drift Deposits (B3) (Riverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No x Depth (inches): Water Barks (B1) (Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Restrictive L	ayer (if present):							
HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (20 or more required)	Type:								
HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (20 or more required)	Depth (inch	es):						Hydric Soil Pre	sent? Yes x No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Salt Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Water Table Dras (B10) Wetland Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No No Depth (inches): Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes	Domarks: No	soil pit was dua du	io to the docu	monted presence	of San Diog	o fain, chr	rimn Hvd	lric soils word as	sumed due to strong hydrology
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B3) (Nonriverine) Dry-Season Water Table (C2) Sediment Deposits (B3) (Nonriverine) Dry-Season Water Table (C2) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) X Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Metland		son pit was dug de	ie to trie docu	mented presence t	or San Dieg	o lally Sill	iliip. i iyu	inc sons were as	surried due to strong riyarology
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Surface Water (A1)	_				`				
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Saturation (A3)									, , , ,
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Drift Deposits (B3) (Nonriverine) x Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No x Depth (inches): Saturation (C4) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes x No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						` '			• •
x Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) 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): Wetland Hydrology Present? Yes x No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sedimer	it Deposits (B2) (No	onriverine)		•		•		
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Water-Stained Leaves (B9) Other (Explain in Remarks) 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) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	x Surface	Soil Cracks (B6)		Recent Ir	on Reduction	on in Tilled	d Soils (C	(6)	Saturation Visible on Aerial Imagery (C9)
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): Wetland Hydrology Present? Yes x No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Inundation	on Visible on Aerial	Imagery (B7)	Thin Muc	k Surface (C7)		8	Shallow Aquitard (D3)
Surface Water Present? Yes No _x _ Depth (inches): Water Table Present? Yes No _x _ Depth (inches): Saturation Present? Yes No _x _ Depth (inches): Wetland Hydrology Present? Yes x _ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water-S	tained Leaves (B9)		Other (Ex	plain in Re	marks)		F	FAC-Neutral Test (D5)
Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observ	ations:							
Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			Yes 1	No x Depth (inc	nes):				
Saturation Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes x No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table F	Present?					_		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Pro	esent?			-		Wetla	and Hydrology	Present? Yes x No
	(includes cap	illary fringe)			,		_		
Remarks:	Describe Reco	rded Data (stream	gauge, monit	oring well, aerial ph	otos, previ	ous insped	ctions), if	available:	
Remarks:									
remars.	Domestic:								
	Remarks:								

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: Chula Vi	sta/San Diego	Sampling Da	te: 05/22/2014
Applicant/Owner: San Diego Gas & E	Electric				State: CA	Sampling Poi	
Investigator(s): Michael Nieto, Cailin (O'Meara		Section,	Township, F	Range: T18S, R01W, Sec	. 24, Otay Mes	sa quadrangle
Landform (hillslope, terrace, etc.): Me:	sa				, convex, none): Convex		lope (%): 0
Subregion (LRR): LRR-C		Lat:	32°35'0.63"N		Long: 116°56'22.05"W		tum: <u>NAD-83</u>
Soil Map Unit Name: Stockpen grave	-				NWI classification		
Are climatic / hydrologic conditions on			-				
	_				Are "Normal Circumstance		
Are Vegetation, Soil	<u>,</u> or Hydrology _	natur	ally problemat	tic? No	(If needed, explain any ans	wers in Rema	ırks.)
SUMMARY OF FINDINGS – Atta	ach site map s	howing sa	mpling poir	nt location	s, transects, important	t features, e	tc.
Hydrophytic Vegetation Present?	Yes x	No					
Hydric Soil Present?	Yes x	No		ne Sampled	YAS	(No	
Wetland Hydrology Present?	Yes x	No	— with	nin a Wetlan	nd? ——		
Remarks: Vegetation significantly di	sturbed from acc	ess mad					
remarks. Vegetation digrimountly an	starbea from acc	C00 1000.					
VEGETATION – Use scientific r	names of plant						
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works		
1.		-			Number of Dominant Sp That Are OBL, FACW, o		2 (A
2.					Total Number of Domina	ant	
3.		· ·			Species Across All Strat		(B
4					Percent of Dominant Sp That Are OBL, FACW, o		100% (A
0 1 (0) 1 0) 1 (0) 1	,		= Total Cove	er	1110(7110 052, 171017, 0		(-
Sapling/Shrub Stratum (Plot size:)				Prevalence Index work	rahaat.	
1. 2.		. .	. ———		Total % Cover of:		ıltiply by:
3.		-	· 		OBL species		лиргу бу.
4.			· 		FACW species		
5.				-	FAC species	x 3 =	
			= Total Cove	er	FACU species	x 4 =	
Herb Stratum (Plot size:)				UPL species	x 5 = _	
1. Psilocarphus brevissimus var. br	revissimus	3	Yes	FACW	Column Totals:	(A)	(B)
2. Polypogon monspeliensis		2	Yes	FACW	Prevalence Index	x = B/A =	
3. Erodium botrys		1	No	FACU	-		
4. Sonchus oleraceous		0.5	No	UPL	Hydrophytic Vegetatio		
5. 6.		·		-	Dominance Test is Prevalence Index		
7			· 		Morphological Ada		ovide supportin
8.		-			data in Remark		
· · · · · · · · · · · · · · · · · · ·		6.5	= Total Cov	er	Problematic Hydro	ophytic Vegeta	ation¹ (Explain)
Woody Vine Stratum (Plot size:)						, ,
1.					¹ Indicators of hydric soi	and wetland	hydrology mus
2.					be present, unless distr	urbed or proble	ematic.
			= Total Cove	er	Hydrophytic		
% Bare Ground in Herb Stratum	% C	over of Biotic	Crust		Vegetation Present?	es x	No
	 -		-		. 1000	~	
Remarks: Sampling was conducted in	n a vemal pool w	iuiin an acce	ess road.				

Depth	ription: (Describe to Matrix			Redox Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	emarks
			,					 : :	
							-		
	•								
	-								
									
	-								
¹ Type: C=Cor	ncentration, D=Depletion	on, RM=Reduce	d Matrix, CS=Cov	ered or Coated	Sand Grair	ıs. ² l	Location: PL=Po	ore Lining, RC=Root Cha	nnel, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all Li	RRs, unless otl	herwise note	ed.)		Indicators	s for Problematic Hy	dric Soils³:
Histoso	(A1)		Sand	dy Redox (S5	5)		1 cm	Muck (A9) (LRR C)	
	pipedon (A2)			ped Matrix (S				Muck (A10) (LRR B)	
	istic (A3)			ny Mucky Mir	•			ced Vertic (F18)	
	en Sulfide (A4)			ny Gleyed Ma				Parent Material (TF2)	
	d Layers (A5) (LRR	C)		eted Matrix (I				(Explain in Remarks)	
	uck (A9) (LRR D)	O)		ox Dark Surfa	,			(Explain in Remaiks)	
	d Below Dark Surface	co (Λ11)		eted Dark Su	` '				
	ark Surface (A12)	Se (ATT)		ox Depression	` ,		3Indicators	s of hydrophytic vegeta	ation and
	Mucky Mineral (S1)			al Pools (F9)	` '			d hydrology must be p	
	Gleyed Matrix (S4)		<u> </u>	ai F00is (i 9)				disturbed or problem	
Sandy C	Dieyeu Matrix (04)						uniess	disturbed of problem	alic.
Restrictive	Layer (if present):								
Type:									
Depth (inc			mented presen	ce of San Die	ego fairy sh	ırimp. Hydr	Hydric Soil P	resent? Yes	x No
Depth (inc	o soil pit was dug du		mented presend	ce of San Die	ego fairy sh	ırimp. Hydr	,	-	
Depth (inc	o soil pit was dug du nd hydrology indicat		mented presend	ce of San Die	ego fairy sh	ırimp. Hydr	,	-	
Depth (inc Remarks: N vegetation a	o soil pit was dug du nd hydrology indicat	ors.	mented presend	ce of San Die	ego fairy sh	ırimp. Hydr	ic soils were a	-	g hydrophytic
Depth (inc Remarks: N vegetation a	o soil pit was dug du nd hydrology indicat	ors.			ego fairy sh	ırimp. Hydr	ic soils were a	assumed due to stron	g hydrophytic 2 or more required
Depth (inc Remarks: N vegetation a HYDROLOG Wetland Hy Primary Ind	o soil pit was dug dund hydrology indicat GY /drology Indicators icators (minimum of	ors.	check all that a	apply)	ego fairy sh	rimp. Hydr	ic soils were a	econdary Indicators (Water Marks (B1) (F	g hydrophytic (2 or more required Riverine)
Depth (inc Remarks: N vegetation a HYDROLOG Wetland Hy Primary Ind Surface	o soil pit was dug dund hydrology indicate GY /drology Indicators icators (minimum of	ors.	check all that a	apply) Grust (B11)	ego fairy sh	irimp. Hydr	ic soils were a	econdary Indicators (Water Marks (B1) (F Sediment Deposits (g hydrophytic (2 or more required Riverine) (B2) (Riverine)
Depth (inc Remarks: N vegetation a HYDROLOG Wetland Hy Primary Ind Surface High W	o soil pit was dug dund hydrology indicate GY /drology Indicators icators (minimum of Water (A1) ater Table (A2)	ors.	check all that a	apply) Crust (B11) Crust (B12)		irimp. Hydr	ic soils were a	econdary Indicators (Water Marks (B1) (F Sediment Deposits (Drift Deposits (B3) (I	g hydrophytic (2 or more required Riverine) (B2) (Riverine) Riverine)
Depth (inc Remarks: N vegetation a HYDROLOG Wetland Hy Primary Ind Surface High W Saturati	o soil pit was dug dund hydrology indicate GY /drology Indicators icators (minimum of Water (A1) ater Table (A2) on (A3)	ors. : one required;	check all that aSalt CBioticAquat	apply) Frust (B11) Crust (B12) ic Invertebrat	tes (B13)	irimp. Hydr	ic soils were a	econdary Indicators (Water Marks (B1) (F Sediment Deposits (B3) (I Drainage Patterns (E	g hydrophytic (2 or more required Riverine) (B2) (Riverine) Riverine) (B10)
Depth (inc Remarks: N vegetation a HYDROLOG Wetland Hy Primary Ind Surface High W Saturati Water N	o soil pit was dug dund hydrology indicate Arrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive	s: one required; rine)	check all that a Salt C Biotic Aquat Hydro	apply) Frust (B11) Crust (B12) ic Invertebrat gen Sulfide (tes (B13) Odor (C1)		ic soils were a	econdary Indicators (Water Marks (B1) (F Sediment Deposits (B3) (I Drainage Patterns (I Dry-Season Water T	g hydrophytic (2 or more required Riverine) (B2) (Riverine) Riverine) (B10) (Fable (C2)
Depth (inc Remarks: N vegetation a HYDROLOG Wetland Hy Primary Ind Surface High W Saturati Water N Sedime	o soil pit was dug dund hydrology indicate GY /drology Indicators icators (minimum of Water (A1) ater Table (A2) on (A3) //arks (B1) (Nonrive int Deposits (B2) (No	ors. s: one required; rine) porriverine)	check all that aSalt CBioticAquatHydroOxidiz	apply) crust (B11) Crust (B12) ic Invertebrat gen Sulfide (red Rhizosph	tes (B13) Odor (C1) eres along	Living Roo	ic soils were a	econdary Indicators (Water Marks (B1) (F Sediment Deposits (Drift Deposits (B3) (I Drainage Patterns (E Dry-Season Water T Thin Muck Surface (g hydrophytic (2 or more required Riverine) (B2) (Riverine) Riverine) 310) Fable (C2) (C7)
Depth (inc Remarks: N vegetation a HYDROLOG Wetland Hy Primary Ind Surface High W Saturati Water N Sedime Drift De	o soil pit was dug dund hydrology indicate Ardrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No	ors. s: one required; rine) porriverine)	check all that aSalt CBioticAquatHydroOxidiz	apply) Frust (B11) Crust (B12) ic Invertebrat gen Sulfide (tes (B13) Odor (C1) eres along	Living Roo	ic soils were a	econdary Indicators (Water Marks (B1) (F Sediment Deposits (B3) (I Drainage Patterns (I Dry-Season Water T Thin Muck Surface (Crayfish Burrows (C	g hydrophytic (2 or more required Riverine) (B2) (Riverine) Riverine) B10) Fable (C2) (C7) 8)
Depth (inc Remarks: N vegetation a HYDROLOG Wetland Hy Primary Ind Surface High W Saturati Water N Sedime Drift De	o soil pit was dug dund hydrology indicate GY /drology Indicators icators (minimum of Water (A1) ater Table (A2) on (A3) //arks (B1) (Nonrive int Deposits (B2) (No	ors. s: one required; rine) porriverine)	check all that a Salt C Biotic Aquat Hydro Oxidiz Prese	apply) crust (B11) Crust (B12) ic Invertebrat gen Sulfide (red Rhizosph	tes (B13) Odor (C1) eres along ced Iron (C	Living Roo 4)	Se Se State (C3)	econdary Indicators (Water Marks (B1) (F Sediment Deposits (Drift Deposits (B3) (I Drainage Patterns (E Dry-Season Water T Thin Muck Surface (g hydrophytic (2 or more required Riverine) (B2) (Riverine) Riverine) B10) Fable (C2) (C7) 8)
Depth (inc Remarks: N vegetation a HYDROLOG Wetland Hy Primary Ind Surface High W Saturati Water N Sedime Drift De x Surface	o soil pit was dug dund hydrology indicate Ardrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No	ors. crine) conriverine) erine)	check all that a Salt C Biotic Aquat Hydro Oxidiz Prese Recer	apply) Crust (B11) Crust (B12) ic Invertebrat gen Sulfide (zed Rhizosph nce of Reduc	tes (B13) Odor (C1) Deres along ced Iron (C	Living Roo 4)	Se Se State (C3)	econdary Indicators (Water Marks (B1) (F Sediment Deposits (B3) (I Drainage Patterns (I Dry-Season Water T Thin Muck Surface (Crayfish Burrows (C	g hydrophytic (2 or more required Riverine) (B2) (Riverine) Riverine) (B10) (B10) (B10) (B10) (B2) (B2) (B3) (B3) (B4) (B4) (B4) (B4) (B4) (B4) (B4) (B4
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Project/Site: TL-649 Otay-San Ysidro Bo	order Wood to	Steel	City/Coun	ty: Chula Vis	sta/San Diego	Sam	pling Date	e: <u>05/22/</u>	2014
Applicant/Owner: San Diego Gas & Elec	etric				State: 0	CASam	pling Poin	t: <u>41</u>	
Investigator(s): Michael Nieto, Cailin O'N	1eara		Section,	Township, R	lange: T18S, R01V	V, Sec. 24,	Otay Mesa	a quadrar	ngle
Landform (hillslope, terrace, etc.): Mesa			Local reli	ef (concave,	convex, none): Con	nvex	Slo	ppe (%):	0
Subregion (LRR): LRR-C		Lat:	32°35'18.95"N		Long: 116°56'21.	86"W	Dati	um: <u>NAD</u>	-83
Soil Map Unit Name: Stockpen gravelly	clay loam				NWI class	sification: P	alustrine		
Are climatic / hydrologic conditions on the	e site typical fo	r this time of	f year? Yes	x No	o(If no, exp	lain in Rem	arks.)		
Are Vegetationx,Soil, o	r Hydrology	x signif	icantly disturb	ed? Yes	Are "Normal Circum	stances" pre	esent? Ye	s x	No
Are Vegetation, Soil, o	r Hydrology	natur	ally problemat	ic? No	(If needed, explain a	iny answers	in Remar	ks.)	
SUMMARY OF FINDINGS – Attach	n site map sh	nowing sa	mpling poir	t locations	s, transects, imp	ortant fea	tures, et	c.	
Hydrophytic Vegetation Present?	Yes x	No	lo 4le	a Campled	A				
Hydric Soil Present?	Yes x	No		e Sampled in a Wetland	Ye	es x	No		
Wetland Hydrology Present?	Yes x	No	_						
Remarks: Vegetation and hydrology alt hydrophytic vegetation and hydrology in VEGETATION – Use scientific name	ndicators in nea	arby undistu	rbed vernal po	ols.				s to prove	archiec of
<u>Tree Stratum</u> (Plot size:1.)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Domin That Are OBL, FA	ant Species	3	0	(A)
2.					Total Number of I Species Across A	Dominant	<u></u> -	1	(F)
4.					Percent of Domin	ant Species		<u> </u>	
			= Total Cove	r	That Are OBL, FA	ACW, or FA	D:	0%	(A/B)
Sapling/Shrub Stratum (Plot size:)								
1					Prevalence Inde		et:		
2					Total % Cove		Mult	tiply by:	_
3					OBL species	0	x 1 =	0	_
4					FACW species	0	x 2 =	0	_
5					FAC species FACU species	0	x 3 = x 4 =	0	
Herb Stratum (Plot size:	1		= Total Cove	r	UPL species	9	x 5 =	45	_
Sonchus oleraceous	/	9	Yes	UPL	Column Totals:	9	(A)	45	(B)
2.					_	e Index = B			(-/
3.					Hadaaahada Vaa		·		
4.					Hydrophytic Veg				
5. 6.						Test is >50			
7		·			Prevalence Morphologi			ido eupo	orting
8.						Remarks or			
Woody Vine Stratum (Plot size:)	9	= Total Cov	er	x_ Problemation	c Hydrophyt	ic Vegetat	ion ¹ (Exp	lain)
1.					¹ Indicators of hyd	dric soil and	wetland h	vdrology	must
2.					be present, unles				must
			= Total Cove	r	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum91	% % Co	ver of Biotic	Crust		Present?	Yes	x N	No	
Remarks: Sampling was conducted in a	vernal pool wit	thin an acce	ss road. Hydro	ophytic vege	tation assumed base	ed on nearb	y undistur	bed verna	al pools.

	Matrix			edox Featu			_			
(inches) Color	(moist)	% C	olor (moist)	%	Type ¹	Loc ²	Textu	re		Remarks
					· 		_			
							-			
							-			
					. _		_			
					· -					
¹ Type: C=Concentration	D=Depletion RM	M=Reduced M	atrix CS=Covere	ed or Coated	Sand Grains	2	Location: PL:	=Pore Lin	ing RC=Roo	t Channel, M=Matrix
Hydric Soil Indicato	•									c Hydric Soils ³ :
Histosol (A1)	ro. (Applicable	o to an Entite		Redox (S5)	-				(A9) (LRR	•
Histic Epipedon (Δ2)			d Matrix (S					(A3) (LRR (A10) (LRR	
Black Histic (A3)	A2)			Mucky Min					ertic (F18)	(D)
	(///)			•	` '				` ,	.E3)
Hydrogen Sulfide Stratified Layers				Gleyed Ma ed Matrix (F					Material (Tain in Rema	,
	` , ` ,			,	,		01	iei (⊏xþi	am m Rema	arks)
1 cm Muck (A9) (.11\		Dark Surfa						
Depleted Below [(11)		ed Dark Sui			31.54:554	f l-:	و المراجع المراجع المراجع المراجع	
Thick Dark Surface	` '			Depression	is (Fo)					egetation and
Sandy Mucky Mir	` '		_x_Vernal	P00IS (F9)						t be present,
Sandy Gleyed Ma	atrix (54)						unie	ะรร ดเรเน	rbed or prol	olematic.
Restrictive Layer (if	present):									
Type:										
Depth (inches):							Hydric Soi	l Presen	t? Yes	s x No
Remarks: No soil pit v hydrophytic indicators			nted presence	of San Die	go fairy shrir	np. Hydi	ric soils wer	re assum	ned due to s	strong hydrology a
hydrophytic indicators			nted presence	of San Die	go fairy shrir	np. Hydi	ric soils wer	re assum	ned due to s	strong hydrology a
hydrophytic indicators HYDROLOGY	in nearby vern		nted presence	of San Die	go fairy shrir	np. Hydi				
hydrophytic indicators HYDROLOGY Wetland Hydrology	in nearby vern	al pools.			go fairy shrir	np. Hydi		Second	ary Indicat	ors (2 or more re
HYDROLOGY Wetland Hydrology Primary Indicators (m	in nearby vern Indicators: inimum of one	al pools.	eck all that app	ıly)	go fairy shrir	np. Hydi		Second Wat	ary Indicat er Marks (B	ors (2 or more re
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A	Indicators:	al pools.	eck all that app	oly) st (B11)	go fairy shrir	np. Hydi		Second Wat	ary Indicat er Marks (B iment Depo	ors (2 or more re 11) (Riverine) sits (B2) (Riverine
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	Indicators:	al pools.	eck all that app Salt Cru Biotic Cr	ly) st (B11) ust (B12)		np. Hydi		Second Wat Sed Drift	ary Indicat er Marks (B iment Depo Deposits (B	ors (2 or more re 1) (Riverine) sits (B2) (Riverine) 33) (Riverine)
HYDROLOGY Wetland Hydrology Primary Indicators (mSurface Water (AHigh Water TableSaturation (A3)	Indicators: hinimum of one A1) e (A2)	al pools.	eck all that app Salt Cru Biotic Cr	oly) st (B11)		np. Hydi		Second Wat Sed Drift	ary Indicat er Marks (B iment Depo	ors (2 or more re 1) (Riverine) sits (B2) (Riverine) 33) (Riverine)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	Indicators: hinimum of one A1) e (A2)	al pools.	eck all that app Salt Cru Biotic Cr Aquatic	ly) st (B11) ust (B12)	es (B13)	np. Hydi		Second Wat Sed Drift Drai	ary Indicater Marks (Biment Depo Deposits (Inage Patter	ors (2 or more re 1) (Riverine) sits (B2) (Riverine) 33) (Riverine)
HYDROLOGY Wetland Hydrology Primary Indicators (mSurface Water (AHigh Water TableSaturation (A3)	Indicators: ainimum of one a1) e (A2) (Nonriverine)	required; che	eck all that app Salt Cru Biotic Cr Aquatic Hydroge	oly) st (B11) ust (B12) Invertebrate n Sulfide C	es (B13)			Second Wat Sed Drift Drai	ary Indicater Marks (Biment Depo Deposits (Inage Patter	cors (2 or more rest) (Riverine) sits (B2) (Riverine) 33) (Riverine) ms (B10) ater Table (C2)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1	Indicators: ininimum of one (A1) e (A2)) (Nonriverine its (B2) (Nonriv	al pools. required; che	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized	oly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe	es (B13) Odor (C1)			Second Wat Sed Drift Drai Dry-	er Marks (B iment Depo Deposits (B nage Patter Season Wa	cors (2 or more rest) (Riverine) sits (B2) (Riverine) sms (B10) ms (B10) ater Table (C2) ace (C7)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depos	Indicators: ninimum of one (A1) e (A2)) (Nonriverine) its (B2) (Nonriverine) (3) (Nonriverine)	al pools. required; che	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc	oly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) Odor (C1) eres along Li	ving Ro	ots (C3)	Second Wat Sed Drift Drai Dry- Thir	ary Indicater Marks (Biment Deposits (Binage Patter Season Wall Muck Surfoffish Burrow	cors (2 or more rest) (Riverine) sits (B2) (Riverine) sms (B10) ms (B10) ater Table (C2) ace (C7)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B3 Surface Soil Crace	Indicators: ninimum of one A1) e (A2)) (Nonriverine) its (B2) (Nonriverine) Cks (B6)	required; che	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled	ving Ro	ots (C3)	Second Wat Sed Drift Drai Dry- Thir Cray	ary Indicater Marks (Biment Deposits (Binage Patter Season Wall Muck Surfafish Burrow Iration Visib	cors (2 or more rest) (Riverine) sits (B2) (Riverine) sits (B10) ater Table (C2) ace (C7) vs (C8) ole on Aerial Image
HYDROLOGY Wetland Hydrology Primary Indicators (M Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B3 Surface Soil Crace Inundation Visible	Indicators: hinimum of one h1) e (A2)) (Nonriverine its (B2) (Nonriverine cks (B6) e on Aerial Image	required; che	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu	oly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc ron Reduct ck Surface	es (B13) Odor (C1) eres along Li ed Iron (C4) cion in Tilled (C7)	ving Ro	ots (C3)	Second Wat Sed Drift Drai Dry- Thir Cray Satu	ary Indicater Marks (Biment Depo Deposits (Binage Patter Season War Muck Surfr offish Burrow Juration Visib	cors (2 or more re t1) (Riverine) sits (B2) (Riverine) sits (B10) ms (B10) ater Table (C2) ace (C7) vs (C8) ble on Aerial Image d (D3)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le	Indicators: hinimum of one h1) e (A2)) (Nonriverine its (B2) (Nonriverine cks (B6) e on Aerial Image	required; che	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) Odor (C1) eres along Li ed Iron (C4) cion in Tilled (C7)	ving Ro	ots (C3)	Second Wat Sed Drift Drai Dry- Thir Cray Satu	ary Indicater Marks (Biment Deposits (Binage Patter Season Wall Muck Surfafish Burrow Iration Visib	cors (2 or more re t1) (Riverine) sits (B2) (Riverine) sits (B10) ms (B10) ater Table (C2) ace (C7) vs (C8) ble on Aerial Image d (D3)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le	Indicators: Indica	required; che verine) gery (B7)	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidizec Presenc Recent I Thin Mu Other (E	oly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled (C7) emarks)	ving Ro	ots (C3)	Second Wat Sed Drift Drai Dry- Thir Cray Satu	ary Indicater Marks (Biment Depo Deposits (Binage Patter Season War Muck Surfr offish Burrow Juration Visib	cors (2 or more re t1) (Riverine) sits (B2) (Riverine) sits (B10) ms (B10) ater Table (C2) ace (C7) vs (C8) ble on Aerial Image d (D3)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Preser	Indicators: Indicators: Indicators: Ininimum of one Inimum	required; che required; che required; che gery (B7)	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E	oly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) Odor (C1) eres along Li ed Iron (C4) cion in Tilled (C7) emarks)	ving Ro	ots (C3)	Second Wat Sed Drift Drai Dry- Thir Cray Satu	ary Indicater Marks (Biment Depo Deposits (Binage Patter Season War Muck Surfr offish Burrow Juration Visib	cors (2 or more re t1) (Riverine) sits (B2) (Riverine) sits (B10) ms (B10) ater Table (C2) ace (C7) vs (C8) ble on Aerial Image d (D3)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le	Indicators: Indicators: Indicators: Ininimum of one Inimum	required; che required; che required; che gery (B7)	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E	oly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) Odor (C1) eres along Li ed Iron (C4) cion in Tilled (C7) emarks)	ving Roo Soils (Co	ots (C3)	Second Wat Sed Drift Drai Dry- Thir Cray Satu Sha	ary Indicater Marks (Biment Deposits (Binage Patter Season Wall Muck Surforfish Burrow Iration Visibiliow Aquitar Te	cors (2 or more re t1) (Riverine) sits (B2) (Riverine) sits (B10) ms (B10) ater Table (C2) ace (C7) vs (C8) ble on Aerial Image d (D3)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Present Water Table Present? Saturation Present?	Indicators: Indica	required; che verine) gery (B7) No_ No_	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ck Surface xplain in Re	es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled (C7) emarks)	ving Roo Soils (Co	ots (C3)	Second Wat Sed Drift Drai Dry- Thir Cray Satu Sha	er Marks (Biment Deposits (Binage Patter Season War Muck Surfafish Burrow Iration Visibiliow Aquitar C-Neutral Te	cors (2 or more re t1) (Riverine) sits (B2) (Riverine) sits (B10) ms (B10) ater Table (C2) ace (C7) vs (C8) ble on Aerial Image d (D3)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Surface Soil Crac Inundation Visible Water-Stained Le Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Indicators: Indica	required; che required; che yerine) gery (B7) No _ No _ No _	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E x Depth (ind x Depth (ind	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled (C7) emarks)	ving Roo Soils (Co	ots (C3) 6)	Second Wat Sed Drift Drai Dry- Thir Cray Satu Sha	er Marks (Biment Deposits (Binage Patter Season War Muck Surfafish Burrow Iration Visibiliow Aquitar C-Neutral Te	cors (2 or more rest) (Riverine) sits (B2) (Riverine) ms (B10) ater Table (C2) ace (C7) vs (C8) ble on Aerial Image ed (D3) est (D5)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Surface Soil Crac Inundation Visible Water-Stained Le Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Indicators: Indica	required; che required; che yerine) gery (B7) No _ No _ No _	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E x Depth (ind x Depth (ind	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled (C7) emarks)	ving Roo Soils (Co	ots (C3) 6)	Second Wat Sed Drift Drai Dry- Thir Cray Satu Sha	er Marks (Biment Deposits (Binage Patter Season War Muck Surfafish Burrow Iration Visibiliow Aquitar C-Neutral Te	cors (2 or more rest) (Riverine) sits (B2) (Riverine) ms (B10) ater Table (C2) ace (C7) vs (C8) ble on Aerial Image ed (D3) est (D5)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Present Water Table Present? Saturation Present?	Indicators: Indica	required; che required; che yerine) gery (B7) No _ No _ No _	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E x Depth (ind x Depth (ind	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled (C7) emarks)	ving Roo Soils (Co	ots (C3) 6)	Second Wat Sed Drift Drai Dry- Thir Cray Satu Sha	er Marks (Biment Deposits (Binage Patter Season War Muck Surfafish Burrow Iration Visibiliow Aquitar C-Neutral Te	cors (2 or more rest) (Riverine) sits (B2) (Riverine) ms (B10) ater Table (C2) ace (C7) vs (C8) ble on Aerial Image ed (D3) est (D5)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depose Drift Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Indicators: Indica	required; che required; che required; che required; che No rerine) No No No Ro ge, monitorin	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E x Depth (ind x Depth (ind g well, aerial p	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches): hotos, prev	es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled (C7) emarks)	ving Roo Soils (Co	ots (C3) 6) and Hydroleavailable:	Second Wat Sed Drift Drai Dry- Thir Cray Satu Sha FAC	er Marks (Biment Deposits (Finage Patter Season Wartish Burrow Iration Visibiliow Aquitar C-Neutral Tesent?	cors (2 or more rest) (Riverine) sists (B2) (Riverine) ms (B10) ater Table (C2) ace (C7) vs (C8) ole on Aerial Image rd (D3) est (D5)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B3 Surface Soil Crac Inundation Visible Water-Stained Le Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Indicators: Indica	required; che required; che required; che required; che No rerine) Reprine No No No Reprine Repri	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E x Depth (ind x Depth (ind g well, aerial p	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches): hotos, prev	es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled (C7) emarks)	ving Roo Soils (Co	ots (C3) 6) and Hydroleavailable:	Second Wat Sed Drift Drai Dry- Thir Cray Satu Sha FAC	er Marks (Biment Deposits (Finage Patter Season Wartish Burrow Iration Visibiliow Aquitar C-Neutral Tesent?	cors (2 or more rest) (Riverine) sists (B2) (Riverine) ms (B10) ater Table (C2) ace (C7) vs (C8) ole on Aerial Image rd (D3) est (D5)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depose Drift Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Indicators: Indica	required; che required; che required; che required; che No rerine) Reprine No No No Reprine Repri	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E x Depth (ind x Depth (ind g well, aerial p	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches): hotos, prev	es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled (C7) emarks)	ving Roo Soils (Co	ots (C3) 6) and Hydroleavailable:	Second Wat Sed Drift Drai Dry- Thir Cray Satu Sha FAC	er Marks (Biment Deposits (Finage Patter Season Wartish Burrow Iration Visibiliow Aquitar C-Neutral Tesent?	cors (2 or more rest) (Riverine) sists (B2) (Riverine) ms (B10) ater Table (C2) ace (C7) vs (C8) ole on Aerial Image rd (D3) est (D5)
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depose Drift Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Presert Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Indicators: Indica	required; che required; che required; che required; che No rerine) Reprine No No No Reprine Repri	eck all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E x Depth (ind x Depth (ind g well, aerial p	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches): hotos, prev	es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled (C7) emarks)	ving Roo Soils (Co	ots (C3) 6) and Hydroleavailable:	Second Wat Sed Drift Drai Dry- Thir Cray Satu Sha FAC	er Marks (Biment Deposits (Finage Patter Season Wartish Burrow Iration Visibiliow Aquitar C-Neutral Tesent?	cors (2 or more rest) (Riverine) sists (B2) (Riverine) ms (B10) ater Table (C2) ace (C7) vs (C8) ole on Aerial Image rd (D3) est (D5)

Project/Site: TL-649 Otay-San Ysidro Border Wood to St	eel	City/Count	y: Chula Vis	sta/San Diego	Sampling Date:	: 05/22/2014
Applicant/Owner: San Diego Gas & Electric				State: CA S	Sampling Point	t: <u>42</u>
Investigator(s): Michael Nieto, Cailin O'Meara		Section,	Γownship, R	ange: T18S, R01W, Sec.	25, Otay Mesa	quadrangle
Landform (hillslope, terrace, etc.): Drainage		Local relie	ef (concave,	convex, none): Convex	Slo	pe (%): 1-3
Subregion (LRR): LRR-C	Lat:	 32°34'56.01"N	1	Long: 116°56'32.61"W	Datu	ım: NAD-83
Soil Map Unit Name: Linne clay loam				NWI classification	n: Palustrine	
Are climatic / hydrologic conditions on the site typical for t	his time of	year? Yes	x No	(If no, explain in F	Remarks.)	
Are Vegetation, Soil, or Hydrology		-				s x No
Are Vegetation , Soil , or Hydrology				(If needed, explain any ansv		
SUMMARY OF FINDINGS – Attach site map sho				s, transects, important	features, etc	.
Hydrophytic Vegetation Present? Yes x	No					
	No		e Sampled	Yes x	No	
Wetland Hydrology Present? Yes x N	No	- with	in a Wetlan	d? ——		
Remarks: Sampling point within emergent marsh vegeta	ation locate	ed within drain	ane			
Transfer our pring point main official services regard			ago.			
VEGETATION – Use scientific names of plants.						
	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksh		
1.	70 00101	ороскоо.	Otatao	Number of Dominant Spe That Are OBL, FACW, or		4 (A)
2.			-	Total Number of Dominar		(/ //
3.				Species Across All Strata		5 (B)
4.				Percent of Dominant Spe		``,
	<u> </u>	= Total Cover	r	That Are OBL, FACW, or	FAC:	80% (A/B)
Sapling/Shrub Stratum (Plot size:)						
1. Juncus acutus	20	Yes	FACW	Prevalence Index works	sheet:	
2. Baccharis salicifolia	15	Yes	FAC	Total % Cover of:	Multi	ply by:
3. Iva hayesiana	12	Yes	FACW	OBL species	x 1 =	
4. Tamarix ramossisima	2	No	FAC	FACW species	x 2 =	
5				FAC species	x 3 =	
-	49	= Total Cover	r	FACU species	x 4 =	
Herb Stratum (Plot size:)	0.5	\/	EA 0)4/	UPL species	x 5 =	(D)
1. Polypogon monspeliensis	0.5	Yes	FACW	Column Totals:	(A)	(B)
Heliotropum curassavicum 3.	2	Yes	FACU	Prevalence Index	= B/A =	
4.				Hydrophytic Vegetation	Indicators	
5			-			
6.				x _ Dominance Test is Prevalence Index is		
7				Morphological Ada		ido supportina
8.				data in Remarks		
	2.5	= Total Cove	 er	Problematic Hydro	ohytic Vegetati	on¹ (Explain)
Woody Vine Stratum (Plot size:)					sily iio vogotati	on (Explain)
1.				¹ Indicators of hydric soil	and wetland hy	vdrology must
2.			-	be present, unless distur		
		= Total Cover		Hydrophytic		
_				Vegetation		
% Bare Ground in Herb Stratum 87.5% % Cove	er of Biotic	Crust		Present? Yes	s N	lo
Remarks:						

Profile Desc	ription: (Describe	to the depth i	needed to docum	nent the indicator of	or confirm	the absence o	f indicators.)
Depth	Matrix			edox Features	. 2		
(inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
				.	_		
					_	_	
	-						
	-			- 			
				.	_	_	
				ed or Coated Sand Gra	ains.		ore Lining, RC=Root Channel, M=Matrix.
-	Indicators: (App	icable to all LF	•	•			for Problematic Hydric Soils ³ :
Histoso				Redox (S5)			Muck (A9) (LRR C)
	pipedon (A2)			d Matrix (S6)			Muck (A10) (LRR B)
	istic (A3)			Mucky Mineral (F1)			ced Vertic (F18)
	en Sulfide (A4)			Gleyed Matrix (F2)			arent Material (TF2)
	d Layers (A5) (LRI	₹ C)		ed Matrix (F3)		Other	(Explain in Remarks)
	uck (A9) (LRR D)	(8.4.4)		Dark Surface (F6)			
	d Below Dark Surf	ace (A11)		ed Dark Surface (F7)	31	af handra whati's a santation and
	ark Surface (A12)			Depressions (F8)			of hydrophytic vegetation and
	Mucky Mineral (S1		vemai	Pools (F9)			d hydrology must be present, disturbed or problematic.
	Gleyed Matrix (S4)					uniess	disturbed of problematic.
	Layer (if present)	:					
Type: Ro	cky conglomerate						
Depth (inc	hes):		<u></u>			Hydric Soil Pr	resent? Yes x No No
Remarks: R	ocky conglomerate	e precludes dia	ging Hydric soils	assumed based on	strona hron	ohytic vegetation	n and hydrology indicators.
	, , , , , , , , , , , , , , , , , , , ,	0,	<i>y y</i>		3 1	. ,	, , , , , , , , , , , , , , , , , , , ,
HYDROLOG							
_	drology Indicato					<u>Se</u>	condary Indicators (2 or more required)
Primary Ind	icators (minimum o	of one required;	check all that app	oly)			_Water Marks (B1) (Riverine)
Surface	: Water (A1)		x Salt Cru	st (B11)			Sediment Deposits (B2) (Riverine)
High W	ater Table (A2)		Biotic Ci	rust (B12)		X	Drift Deposits (B3) (Riverine)
Saturati	ion (A3)		Aquatic	Invertebrates (B13)			Drainage Patterns (B10)
Water N	Marks (B1) (Nonriv	rerine)	Hydroge	en Sulfide Odor (C1))		Dry-Season Water Table (C2)
Sedime	ent Deposits (B2) (I	Nonriverine)	Oxidized	d Rhizospheres alor	ng Living Ro	oots (C3)	Thin Muck Surface (C7)
Drift De	posits (B3) (Nonri	verine)	Presenc	e of Reduced Iron (C4)		Crayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent	ron Reduction in Til	led Soils (C	C6)	Saturation Visible on Aerial Imagery (C9)
	ion Visible on Aeri	al Imagery (B7)		ck Surface (C7)	`	· —	Shallow Aquitard (D3)
	Stained Leaves (B	. ,		Explain in Remarks)			FAC-Neutral Test (D5)
	,	,					
Field Obser							
Surface Wat			No x Depth (in				
Water Table			No <u>x</u> Depth (in				
Saturation P		Yes N	No <u>x</u> Depth (in	ches):	Wetl	land Hydrology	y Present? Yes x No
(includes ca							
Describe Rec	orded Data (strear	n gauge, monito	oring well, aerial p	hotos, previous insp	pections), if	f available:	
Remarks:							
Tomains.							

Project/Site: TL-649 Otay-San Ysidro	Border Wood to	Steel	City/Coun	ty: Chula Vis	sta/San Diego	Samp	oling Date	: 05/22/	/2014
Applicant/Owner: San Diego Gas & E	Electric				State:	CA Samp	oling Poin	t: <u>43</u>	
Investigator(s): Michael Nieto, Cailin (O'Meara		Section,	Township, R	tange: T18S, R01	IW, Sec. 25, 0	Otay Mesa	a quadra	angle
Landform (hillslope, terrace, etc.): <u>Hills</u>	slope				convex, none): Slo	оре	Slo	pe (%):	5
Subregion (LRR): LRR-C		Lat:	32°34'55.51"I	N	Long: 116°56'32	.79"W	Datu	ım: <u>NAD</u>	-83
Soil Map Unit Name: <u>Linne clay loam</u>	1					sification: No	t applicat	le	
Are climatic / hydrologic conditions on			-			plain in Rema			
Are Vegetation, Soil	_				Are "Normal Circum				No
Are Vegetation, Soil	<u>,</u> or Hydrology _	natura	ally problemat	ic? No	(If needed, explain	any answers	in Remark	(S.)	
SUMMARY OF FINDINGS – Atta	ach site map s	howing sa	mpling poir	nt location	s, transects, imp	ortant feat	ures, etc	>.	
Hydrophytic Vegetation Present?	Yes	No x	lo 4h	a Campled	Area				
Hydric Soil Present?	Yes	No x		ne Sampled nin a Wetlan	Y	es	No	(
Wetland Hydrology Present?	Yes	No x	_	a wona	u .				
Remarks: Sampling point located or VEGETATION – Use scientific r		s.	-						
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Domination That Are OBL, Fa	nant Species		0	(A)
2. 3.					Total Number of Species Across A			1	(B)
4			= Total Cove	er	Percent of Domir That Are OBL, F	•	::	0%	(A/B)
Sapling/Shrub Stratum (Plot size:)								
1.					Prevalence Inde			inly by:	
2. 3.					Total % Cov	0	x 1 =	iply by: 0	_
4.					FACW species	0	x 2 =	0	_
5.					FAC species	0	x 3 =	0	_
		·	= Total Cove	er	FACU species	0	x 4 =	0	
Herb Stratum (Plot size:)				UPL species	85	x 5 =	425	
1. Bromus diandrus		65	Yes	UPL	Column Totals:	85	(A)	425	(B)
2. Hirschfeldia incana		2	No	UPL	Prevalen	ce Index = B/A	A = 5.0		
3. Avena barbata		15	No	UPL					
4.					Hydrophytic Ve	_			
5.						e Test is >509			
7.					Morpholog	e Index is ≤3.0 ical Adaptatio	ons¹ (Prov		
8		85%	= Total Cov	er		Remarks or o	-		•
Woody Vine Stratum (Plot size:)				¹ Indicators of hy be present, unle	dric soil and vess disturbed	wetland hy	ydrology natic.	must
% Bare Ground in Herb Stratum	15% % Co	over of Biotic	= Total Cove	er	Hydrophytic Vegetation Present?	Yes		lo x	
Remarks: Sampling point within non-									

Profile Desc Depth	cription: (Describe to Matrix	the depth nee		ent the inc dox Featu		confirm t	the absence of	indicators.)
(inches)	Color (moist)	% C	Color (moist)	%	Type ¹	Loc ²	_ Texture	Remarks
0-16	7.5 YR 4/3	100 -	olo: (molot)		.,,,,,	200		romano
0-16	7.5 TK 4/5	100 -					Sandy loam	_ · <u>-</u>
-								
1							2	
	ncentration, D=Depletion					S		re Lining, RC=Root Channel, M=Matrix.
-	I Indicators: (Applica	ible to all LRR			-			for Problematic Hydric Soils ³ :
Histoso	, ,			edox (S5)				Muck (A9) (LRR C)
	pipedon (A2)			Matrix (Se				fluck (A10) (LRR B)
	listic (A3)			Mucky Min	, ,			ed Vertic (F18)
	en Sulfide (A4)			Sleyed Ma				arent Material (TF2)
	ed Layers (A5) (LRR C	;)		Matrix (F	,		Other (Explain in Remarks)
	uck (A9) (LRR D)	- (0.4.4)		ark Surfac	` ,			
	ed Below Dark Surface	e (ATT)		l Dark Sur			31	of herdronic disconnectation and
	Oark Surface (A12)			epression	S (F8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		vemai P	ools (F9)				I hydrology must be present, disturbed or problematic.
	Gleyed Matrix (S4)						uniess	disturbed of problematic.
Restrictive	Layer (if present):							
Type:								
Depth (inc	ches):						Hydric Soil Pre	esent? Yes Nox
Pemarks: N	lo hydric soil indicator	e observed						
rtomanto. 1	to riyano con maicator	0 0000, 100.						
HYDROLO								
Wetland H	ydrology Indicators:						·	condary Indicators (2 or more required)
Primary Ind	licators (minimum of o	ne required; ch	eck all that apply	/)				Water Marks (B1) (Riverine)
Surface	e Water (A1)		Salt Crust	(B11)				Sediment Deposits (B2) (Riverine)
High W	ater Table (A2)		Biotic Cru	st (B12)				Drift Deposits (B3) (Riverine)
Saturat	tion (A3)		Aquatic Ir	vertebrate	es (B13)			Drainage Patterns (B10)
	Marks (B1) (Nonriver i	ine)	Hydrogen					Dry-Season Water Table (C2)
	ent Deposits (B2) (No				eres along	Livina Ro		Thin Muck Surface (C7)
_ 	eposits (B3) (Nonrive				ed Iron (C4	•	` '	Crayfish Burrows (C8)
_ 	e Soil Cracks (B6)	iiic)			ion in Tille			Saturation Visible on Aerial Imagery (C9)
	tion Visible on Aerial I	magany (P7)				u 00113 (0	· —	- · · · ·
		illagely (b7)	Thin Mucl					Shallow Aquitard (D3)
vvater-	Stained Leaves (B9)		Other (Ex	piain in Re	emarks)			FAC-Neutral Test (D5)
Field Obser	rvations:							
Surface Wa	ter Present? Y	es No	x Depth (incl	nes):				
Water Table	Present? Y	es No	x Depth (inch	nes):				
Saturation F	Present? Y	es No	x Depth (incl	nes):		Wetla	and Hydrology	Present? Yes No x
(includes ca	pillary fringe)							
Describe Red	corded Data (stream g	auge, monitorir	ng well, aerial ph	otos, prev	ious inspe	ctions), if	available:	
Dawr - d. M	- walland bod 1	aliante!	d					
Remarks: No	o wetland hydrology in	iuicators observ	rea.					

Project/Site: TL 649 Otay/San Ysidr	o Border. WRS		City/Cour	nty: <u>Chula V</u> i	sta/San Diego	Sar	npling Date	:03/20/20	15
Applicant/Owner: SDG&E					State:CA	San	npling Point	::44	
Investigator(s):Ian Maunsell, Christin	na Congedo		Section,	Township, Ra	ange:Otay Mesa qua	ad, Otay	(Estudillo) land gra	nt
Landform (hillslope, terrace, etc.): Terra	ace		Local rel	ief (concave,	convex, none):conca	ave	S	lope (%):0	
Subregion (LRR):C - Mediterranean (California	Lat:32.5	59706		Long:-116.94486		Da	tum:NAD-	-83
Soil Map Unit Name: Olvenhain Cobb	oly Loam				NWI cla	ssification	 n:Palustrine	e	
Are climatic / hydrologic conditions on tl	•	time of ve	ear? Yes	No ((If no, explain	in Rema	rks.)		
			disturbed		"Normal Circumstance		,	No (\bigcirc
			oblematic		eeded, explain any ar	•		,	
SUMMARY OF FINDINGS - A	_							ooturos	oto
SOMMAN OF THE DITCS - A	tach site map s	ilowing	Sampii	ing point i	ocations, transc	cts, iiii	portant		
Hydrophytic Vegetation Present?	_								
Hydric Soil Present?				the Sample					
Wetland Hydrology Present? Remarks:Disturbed vernal pool wi			W	ithin a Wetla	nd? Yes	(•)	No O		
F									
VEGETATION									
T 01 1 11 11 11 11 11 11 11 11 11 11 11 1		Absolute		nt Indicator	Dominance Test	workshee	et:		
<u>Tree Stratum</u> (Use scientific names. 1. <i>None</i>		% Cover ()	No Species	? Status	Number of Domina			2	(A)
2.			110		That Are OBL, FA	SVV, OF FA	AC:	2 ((A)
3.				_	Total Number of D Species Across All			2 ((B)
4.					'			2	,D)
	Total Cover:	0 %			 Percent of Domina That Are OBL, FA 			00.0%	A/B)
Sapling/Shrub Stratum	. 510.	- 70						JU.U % (~(0)
1. <i>None</i>		0	No		Prevalence Index				
2				_	Total % Cover			ply by:	
3					OBL species FACW species	3	x 1 = x 2 =	3 8	
4					FAC species	4	x 2 =	0	
5	Total Cover:	0 %			FACU species		x 4 =	0	
Herb Stratum	rotal Gover.	0 /0			UPL species		x 5 =	0	
1.Psilocarphus tenellus		1	No	OBL	Column Totals:	7	(A)	11	(B)
2. Lythrum hyssopifolia		2	Yes	OBL		,			,
3. Juncus effusus		4	Yes	FACW	Prevalence I			1.57	
4					Hydrophytic Vege				
5					X Dominance Te				
6.					X Prevalence In Morphological			la aunnartir	
7							on a separa		ıg
8	Tatal Causan				Problematic H	ydrophyti	c Vegetatio	n¹ (Explain))
Woody Vine Stratum	Total Cover:	7 %							
1.None		0	No		¹ Indicators of hydr	ic soil an	d wetland h	nydrology m	nust
2.					be present.				
	Total Cover:	0 %			Hydrophytic				
% Bare Ground in Herb Stratum	93 % % Cover	of Biotic C	Crust	0 %	Vegetation Present?	Yes •	No (\circ	
Remarks: Vernal pool within acce									ols
vernar poor within deec	255 Toda, Vegetation	distaro	.a, assan	ica oasca o	in presence of veget	ation an	a aajacem	vernar po	015.

SOIL

Sampling Point: 44

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

Depth	Matrix		edox Features	1 2	- ·	- ·
(inches)	Color (moist) %	Color (moist)	%Type ¹	Loc ²	Texture	Remarks
		_				-
Type: C=C	oncentration, D=Depletion, R	— ————————————————————————————————————	, CS=Covered or Coated	Sand Grain	ns. ² Locatio	on: PL=Pore Lining, M=Matrix.
• •	ndicators: (Applicable to all I					Problematic Hydric Soils ³ :
Histosol			edox (S5)			k (A9) (LRR C)
	pipedon (A2)		Matrix (S6)			k (A10) (LRR B)
	stic (A3)		Mucky Mineral (F1)			Vertic (F18)
	en Sulfide (A4)		Gleyed Matrix (F2)			nt Material (TF2)
Stratified	d Layers (A5) (LRR C)		d Matrix (F3)			plain in Remarks)
1 cm Mu	ıck (A9) (LRR D)	Redox E	Dark Surface (F6)		_	
	d Below Dark Surface (A11)	Deplete	d Dark Surface (F7)			
Thick Da	ark Surface (A12)		Depressions (F8)		³ Indicators of h	nydrophytic vegetation and
_	Mucky Mineral (S1)	▼ Vernal F	Pools (F9)		•	ology must be present,
Sandy G	Gleyed Matrix (S4)				unless disturb	bed or problematic.
Restrictive	Layer (if present):					
Type:						
Depth (in	ches):				Hydric Soil Pre	esent? Yes • No 🔾
	drology indicators.					
	GΥ					
Vetland Hy	GY drology Indicators:	of Signal (Caranda	
Vetland Hy	GY drology Indicators: cators (any one indicator is su	· ·				ry Indicators (2 or more required)
Vetland Hy Primary Indic	GY drology Indicators: cators (any one indicator is so Water (A1)	Salt Cr	rust (B11)		Wate	er Marks (B1) (Riverine)
Vetland Hy Primary India Surface High Wa	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2)	Salt Cr	Crust (B12)		Wate	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine)
Primary Indic Surface High Wa Saturation	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3)	Salt Cr Biotic (Crust (B12) c Invertebrates (B13)		Wate	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Vetland Hy Primary India Surface High Wa Saturatio Water M	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine)	Salt Cr Biotic (Aquatic	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1)		Wate Sedii Drift Drair	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
Primary India Surface High Wa Saturati Water M Sedimen	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine)	Salt Cr Biotic (Aquatic Hydrog Oxidize	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L	_	Wates Sedin Drift Drair C(C3) Dry-8	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine)	Salt Cr Biotic (Aquatic Hydrog Oxidize Preser	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4)	_	Wates Sedin Drift Drair C(C3) Dry-8	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
Primary India Surface High Wa Saturatia Water M Sedimel Drift Dep	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6)	Salt Cr Biotic (Aquatic Hydrog Oxidize Preser	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7)		Wate Sedin Sedin Drift Drair Cray Cray Satur	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Primary India Surface High Wa Saturatia Water M Sedimel Drift Dep	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine)	Salt Cr Biotic (Aquatic Hydrog Oxidize Preser	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4)		Wates Sedin Drift Drair CC3) Cray Satu	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Vetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Dep Surface Inundati	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6)	Salt Cr Biotic C Aquatic Hydrog Oxidize Preser Thin M (B7) Recent	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7)		Wate Sedir Sedir Drift Drair Cray Satur Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (CS
Vetland Hyverimary India Surface High Wax Saturation Water M Sedimen Drift Dep Surface Inundati Water-S	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9)	Salt Cr Biotic C Aquatic Hydrog Oxidize Preser Thin M (B7) Recent	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe		Wate Sedir Sedir Drift Drair Cray Satur Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (CS) low Aquitard (D3)
Vetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Dep Surface Inundati Water-S Field Obser	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9)	Salt Cr Biotic (Aquatic Hydrog Oxidize Preser Thin M (B7) Recent	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe		Wate Sedir Sedir Drift Drair Cray Satur Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 low Aquitard (D3)
Primary India Surface High Wa Saturati Water M Sedimer Drift Dep Surface Inundati Water-S Gurface Wat	drology Indicators: cators (any one indicator is substance (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9) vations: er Present? Yes	Salt Cr Biotic (Aquation Hydrog Oxidize Preser Thin M (B7) Recent Other (Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe (Explain in Remarks)		Wate Sedir Sedir Drift Drair Cray Satur Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (CS) low Aquitard (D3)
Vetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Dep Surface Inundati Water-S Field Obser	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9) vations: er Present? Present? Yes Present? Yes	Salt Cr Biotic C Aquatic Hydrog Oxidize Preser Thin M (B7) Recent Other (No Depth	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe (Explain in Remarks)	ed Soils (C6)	Wates Sedin Drift Drair Cray Satur Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
Primary India Primary India Surface High Wa Saturati Water M Sedimer Drift Der Surface Inundati Water-S Field Obser Surface Water Table Saturation Princludes car	GY drology Indicators: cators (any one indicator is substance (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9) vations: er Present? Present? Yes resent? Yes oillary fringe)	Salt Cr Biotic C Aquatic Hydrog Oxidize Preser Thin M (B7) Recent Other (No Depth No Depth No Depth	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe (Explain in Remarks) (inches): (inches):	ed Soils (C6)	Water Sedin Drift Drair Cray Satur Shall FAC-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
Primary India Primary India Surface High Wa Saturati Water M Sedimer Drift Der Surface Inundati Water-S Field Obser Surface Water Table Saturation Princludes car	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9) vations: er Present? Present? Yes resent? Yes resent?	Salt Cr Biotic C Aquatic Hydrog Oxidize Preser Thin M (B7) Recent Other (No Depth No Depth No Depth	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe (Explain in Remarks) (inches): (inches):	ed Soils (C6)	Water Sedin Drift Drair Cray Satur Shall FAC-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
Primary India Primary India Surface High Wa Saturati Water M Sedimer Drift Der Surface Inundati Water-S Field Obser Surface Water Table Saturation Princludes car	GY drology Indicators: cators (any one indicator is substance (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9) vations: er Present? Present? Yes resent? Yes oillary fringe)	Salt Cr Biotic C Aquatic Hydrog Oxidize Preser Thin M (B7) Recent Other (No Depth No Depth No Depth	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe (Explain in Remarks) (inches): (inches):	ed Soils (C6)	Water Sedin Drift Drair Cray Satur Shall FAC-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
Vetland Hy Primary India Surface High Wa Saturation Vater N Sedimen Drift Dep Surface Inundati Water-S Gurface Wat Vater Table Saturation P includes cap Describe Re	GY drology Indicators: cators (any one indicator is substance (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9) vations: er Present? Present? Yes resent? Yes oillary fringe)	Salt Cr Biotic (Aquation Hydrog Oxidize Preser Thin M (B7) Recent Other (No Depth No Depth No Depth no Depth monitoring well, aer	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe (Explain in Remarks) (inches): (inches):	ed Soils (C6)	Water Sedin Drift Drair Cray Satur Shall FAC-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
Vetland Hy Primary India Surface High Wa Saturation Drift Dep Surface Inundati Water-S Gurface Water Surface Water Table Saturation P Includes cap Describe Re	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9) vations: er Present? Present? Yes Present? Yes illary fringe) corded Data (stream gauge,	Salt Cr Biotic (Aquation Hydrog Oxidize Preser Thin M (B7) Recent Other (No Depth No Depth No Depth no Depth monitoring well, aer	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe (Explain in Remarks) (inches): (inches):	ed Soils (C6)	Water Sedin Drift Drair Cray Satur Shall FAC-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
Vetland Hy Primary India Surface High Wa Saturation Vater N Sedimen Drift Dep Surface Inundati Water-S Gurface Wat Vater Table Saturation P includes cap Describe Re	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9) vations: er Present? Present? Yes Present? Yes illary fringe) corded Data (stream gauge,	Salt Cr Biotic (Aquation Hydrog Oxidize Preser Thin M (B7) Recent Other (No Depth No Depth No Depth no Depth monitoring well, aer	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe (Explain in Remarks) (inches): (inches):	ed Soils (C6)	Water Sedin Drift Drair Cray Satur Shall FAC-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 low Aquitard (D3) -Neutral Test (D5)
Vetland Hyverimary India Surface High Water Manager Sedimen Drift Dep Surface Inundati Water-S Gield Obser Surface Water Table Staturation P Includes cap Describe Re	GY drology Indicators: cators (any one indicator is so Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) on Visible on Aerial Imagery tained Leaves (B9) vations: er Present? Present? Yes Present? Yes illary fringe) corded Data (stream gauge,	Salt Cr Biotic (Aquation Hydrog Oxidize Preser Thin M (B7) Recent Other (No Depth No Depth No Depth no Depth monitoring well, aer	Crust (B12) c Invertebrates (B13) gen Sulfide Odor (C1) ed Rhizospheres along L nce of Reduced Iron (C4) luck Surface (C7) t Iron Reduction in Plowe (Explain in Remarks) (inches): (inches):	ed Soils (C6)	Water Sedin Drift Drair Cray Satur Shall FAC-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (CS) low Aquitard (D3) -Neutral Test (D5)

No (Local re 59687 ear? Yes disturbed	No (d? Are? (If no		sification:Palu in Remarks.) es" present?	Slope (%):0 Slope (%):0 Datum: NAD ustrine Yes No	D-83
his time of yes significantly naturally pro	Local re 59687 ear? Yes disturbed	No (d? Are? (If no	convex, none): conca Long:-116.94510 NWI clas (If no, explain "Normal Circumstance eeded, explain any an	sification:Palu in Remarks.) es" present?	Slope (%):0 Datum:NAD astrine Yes No arks.)	D-83
his time of yes significantly naturally pro	ear? Yes disturbed	No (d? Are? (If no	Long:-116.94510 NWI class (If no, explain "Normal Circumstance eeded, explain any an	sification:Palu in Remarks.) es" present? ` swers in Rema	Datum: NAD ustrine Yes No arks.)	0-83
his time of yes significantly naturally pro	ear? Yes disturbed	d? Are	NWI clas (If no, explain "Normal Circumstance eeded, explain any an	in Remarks.) es" present? swers in Rema	Yes No	
significantly naturally pro	disturbed	d? Are	NWI clas (If no, explain "Normal Circumstance eeded, explain any an	in Remarks.) es" present? swers in Rema	Yes ● No arks.)	
significantly naturally pro	disturbed	d? Are	(If no, explain "Normal Circumstance eeded, explain any an	in Remarks.) es" present? swers in Rema	Yes ● No arks.)	$\overline{}$
significantly naturally pro	disturbed	d? Are	"Normal Circumstance	es" present? ``swers in Rema	arks.)	\circ
naturally pro	oblematic	? (If n	eeded, explain any an	swers in Rema	arks.)	(N)
showing						
No (Sampi	ing point i	ocalions, transe	as miloon		oto
_					ani leatures	, etc.
NI-						
No (Is	the Sample		_	_	
No 🌘	w	ithin a Wetla	nd? Yes	No (<u> </u>	
Absolute	Domina	nt Indicator	Dominance Test v	orksheet:		
	Species	? Status				
0	No		That Are OBL, FAC	W, or FAC:	1	(A)
			Total Number of Do	minant		
			Species Across All	Strata:	1	(B)
			Percent of Dominar	nt Species		
ver: 0 %			That Are OBL, FAC	W, or FAC:	100.0 %	(A/B)
0	No		Prevalence Index	worksheet:		
			Total % Cover	of:	Multiply by:	_
	-		OBL species	6 x 1	= 6	
			FACW species	x 2	2 = 0	
			FAC species	x 3	3 = 0	
ver: 0 %			· ·			
5	Vac	ODI		x 5	V	
$-\frac{3}{1}$			Column Totals:	6 (A)	6	(B)
	110		Prevalence In	dex = B/A =	1.00	
	-		Hydrophytic Vege	tation Indicat	ors:	
			X Dominance Te	st is >50%		
_		_	× Prevalence Ind	ex is ≤3.0 ¹		
_						ing
_			l			- \
/er: 6 %			- Displaying His	drophytic veg	etation (Explair	1)
0	No		¹ Indicators of hydri	c soil and wet	land hydrology	must
	110	_	be present.	J John and Wet	iana nyarology	must
/er: 0 0/			Hydronhytic			
		0	Vegetation			
ion disturbe	ed, assun	ned based or	n presence of vegeta	ntion and adj	acent vernal p	ools.
	Absolute % Cover 0 % 0	Absolute % Cover o No Ver: 0 % 5 Yes 1 No Ver: 6 % 0 No Ver: 0 % Ver: 0 %	Absolute % Cover Species? Status No No No No No No No No No N	Absolute Species? Status O NO No No No No No No No No No	Absolute % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 6 x1 FACW species x2 FAC species x3 FACU species x4 UPL species x5 Column Totals: 6 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicate X Dominance Test is >50% X Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (data in Remarks or on a s Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation Problematic Test is Soil and wet be present.	Absolute

Depth Matrix Redox Features Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks	
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix	X.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:	
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B)	
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2)	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks)	
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Redox Depressions (F8) Redox Depressions (F8) Vernal Pools (F9) wetland hydrology must be present,	
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Vernal Pools (F9) wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if present):	
Type:	
	\bigcirc
	0
Remarks: hydric soils assumed based on ponded surface water, soil pit not dug due to presence of fairy shrimp.	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required)	
▼ Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine)	<u>iired)</u>
	<u>ıired)</u>
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Rivering)	-
	-
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Rivering Sediment Deposits (B2)	-
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Rivering) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine)	-
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)	-
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)	ne)
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8)	ne)
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Rivering) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible on Aerial Image	ne)
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Rivering) Aquatic Invertebrates (B13) Drift Deposits (B3) (Rivering) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Shallow Aquitard (D3)	ne)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) (Riverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Recent Iron Reduction in Plowed Soils (C6) Shallow Aquitard (D3) FAC-Neutral Test (D5) Field Observations:	ne)
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Rivering) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches):	ne)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) (Riverine) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Drift Deposits (B2) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Dry-Seas	ne)
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High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	gery (C9)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	gery (C9)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	gery (C9)
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High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Table Present? Yes • No Depth (inches): Saturation Present? Yes • No Depth (inches): Wetland Hydrology Present? Yes • No Depth (inches): Saturations, if available:	gery (C9)
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Table Present? Yes • No Depth (inches): Saturation Present? Yes • No Depth (inches): Wetland Hydrology Present? Yes • No Depth (inches): Saturations, if available:	gery (C9)
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Table Present? Yes • No Depth (inches): Saturation Present? Yes • No Depth (inches): Wetland Hydrology Present? Yes • No Depth (inches): Saturations, if available:	gery (C9)

Project/Site: TL 649 Otay/San Ysidro Border. WRS		City/County	Chula Vis	sta/San Diego	Sampling	Date:03/20/2015
Applicant/Owner: SDG&E				State:CA	—— Sampling	Point:46
Investigator(s):Ian Maunsell, Christina Congedo		Section, To	ownship, Rar	nge:Otay Mesa qua	d, Otay (Esti	udillo) land grant
Landform (hillslope, terrace, etc.): hillslope		Local relie	f (concave, d	convex, none):conca	ve	Slope (%):5
Subregion (LRR):C - Mediterranean California	Lat:32.5	59762		Long:-116.94380		Datum:NAD-83
Soil Map Unit Name: Olvenhain Cobbly Loam				NWI clas	ssification:Palu	 istrine
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No C	(If no, explain	in Remarks.)	
Are Vegetation Soil or Hydrology si	gnificantly	disturbed?	Are "	Normal Circumstance	es" present? `	Yes No
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eded, explain any an	swers in Rema	arks.)
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point lo	cations, transe	cts, import	ant features, etc.
Hydrophytic Vegetation Present? Yes No						
		ls ti	ne Sampled	Area		
Wetland Hydrology Present? Yes No			nin a Wetlan		O No (\odot
Remarks:Road rut exhibiting occasional hydrophytic road and lack or ponding.	vegetatio	on on. Roa	nd berm sho	ows evidence of er	osion due to	water carried along
VEGETATION						
	Absolute % Cover	Dominant Species?		Dominance Test w		
1.None	0	No		Number of Dominal That Are OBL, FAC		0 (A)
2.						0 (7.)
3.				Total Number of Do Species Across All		1 (B)
4.						1 ()
Total Cover	0 %			Percent of Dominar That Are OBL, FAC		0.0 % (A/B)
Sapling/Shrub Stratum 1.None	0	No		Prevalence Index	workshoot:	
2.	0			Total % Cover		Multiply by:
3.				OBL species	3 x 1	
4.				FACW species	x 2	2
5.				FAC species	x 3	3 = 0
Total Cover:	0 %			FACU species	x 4	1 = 0
Herb Stratum				UPL species	5 x 5	5 = 25
1.Logfia filaginoides	5		Not Listed	Column Totals:	8 (A)	28 (B)
2-Psilocarphus tenellus	2		OBL	Prevalence In	dox = B/A =	3.50
3.Plagiobothrys acanthocarpus	1	No	OBL	Hydrophytic Vege		
4				Dominance Te		015.
5. 6.				Prevalence Ind		
7.				Morphological A	Adaptations ¹ (I	Provide supporting
8.				data in Rem	narks or on a s	eparate sheet)
Total Cover:	8 %			Problematic Hy	drophytic Veg	getation ¹ (Explain)
Woody Vine Stratum				1		
1. <i>None</i>	0	No		Indicators of hydri- be present.	c soil and wet	tland hydrology must
2	_					
Total Cover: % Bare Ground in Herb Stratum 93 % % Cover	0 % of Biotic C	Crust ()	%	Hydrophytic Vegetation Present?	Yes (No 💿
Remarks: Disturbed vegetation within road and alon						
and is non-dominant. Non-dominant and n	_				7	_
to road on slope and is non-dominant in ur						
the Otay river. Vernal pools not expected	to form u	ınder undi	sturbed cor	nditions.		

Profile Des	cription: (Descri	oe to the der	oth need	led to docu	ment the i	ndicator	or confirn	n the absence of	indicators.)
Depth	Matrix				x Features				
(inches)	Color (moist)	%	Colo	r (moist)		_Type ¹	Loc ²	Texture	Remarks
	_								
								-	-
	-								
¹ Type: C=C	Concentration, D=D	epletion, RM	I=Reduce	ed Matrix, C	S=Covered	d or Coate	ed Sand G	rains. ² Locatio	n: PL=Pore Lining, M=Matrix.
· · · · · · · · · · · · · · · · · · ·	Indicators: (Applic	•							Problematic Hydric Soils:
Histoso		able to all Liv		Sandy Redo					k (A9) (LRR C)
	Epipedon (A2)		H	Stripped Ma	` '				k (A10) (LRR B)
I <u>—</u>	Histic (A3)		H	Loamy Muc		I (F1)			Vertic (F18)
Hydrog	jen Sulfide (A4)		П	Loamy Gle	yed Matrix	(F2)		_	nt Material (TF2)
Stratifie	ed Layers (A5) (LR	R C)	П	Depleted M	latrix (F3)			Other (Ex	plain in Remarks)
	luck (A9) (LRR D)			Redox Darl	k Surface	(F6)			
'	ed Below Dark Sur	ace (A11)		Depleted D					
	Oark Surface (A12)			Redox Dep		F8)			nydrophytic vegetation and
1 <u> </u>	Mucky Mineral (S1		×	Vernal Poo	ls (F9)				plogy must be present,
	Gleyed Matrix (S4)							unless disturl	ped or problematic.
Restrictive	Layer (if present):							
Type:									
Depth (ir	nches):							Hydric Soil Pre	esent? Yes No
HYDROLO	OGY								
Wetland Hy	ydrology Indicato	rs:							
Primary Ind	icators (any one in	dicator is suff	ficient)					Secondar	ry Indicators (2 or more required)
Surface	e Water (A1)			Salt Crust	(B11)			☐ Wate	er Marks (B1) (Riverine)
==	ater Table (A2)			Biotic Cru				Sedi	ment Deposits (B2) (Riverine)
Saturat	tion (A3)			Aquatic In	vertebrate	s (B13)			Deposits (B3) (Riverine)
Water I	Marks (B1) (Nonri v	rerine)		Hydrogen	Sulfide O	dor (C1)		<u> </u>	nage Patterns (B10)
Sedime	ent Deposits (B2) (Nonriverine)	,	Oxidized I	Rhizosphe	res along	Living Roo		Season Water Table (C2)
Drift De	eposits (B3) (Nonr i	verine)		Presence	of Reduce	ed Iron (C4	4)	Cray	fish Burrows (C8)
Surface	e Soil Cracks (B6)			Thin Muck	Surface ((C7)		Satu	ration Visible on Aerial Imagery (C9)
Inunda	tion Visible on Aeri	al Imagery (B	37)	Recent Iro	on Reducti	on in Plov	ved Soils (C6) 🗍 Shall	ow Aquitard (D3)
Water-	Stained Leaves (B	3)		Other (Ex	plain in Re	emarks)		FAC-	-Neutral Test (D5)
Field Obse	rvations:		<u> </u>						, ,
Surface Wa	ater Present?	Yes (No 💿	Depth (in	ches):				
Water Table	e Present?		No (•	Depth (in	· · ·				
Saturation F	Present?		No 💿	Depth (in	· · · · · · · · · · · · · · · · · · ·				
(includes ca	apillary fringe)						I .	and Hydrology P	resent? Yes 💿 No 🔘
Describe Re	ecorded Data (stre	am gauge, m	onitoring	well, aerial	photos, pr	evious ins	spections),	if available:	
Remarks:So	oil surface crack	s present, ho	owever	hydrology	is expect	ed to occ	cur as a re	esult of erosion f	rom stormwater carried along
ro	oadside berm.								
US Army Corr	os of Engineers								

Project/Site: TL 649 Otay/San Ysidro Border. WRS		City/Count	y:Chula Vis	sta/San Diego	Sam	pling Date:03	3/20/201	15
Applicant/Owner: SDG&E				State:CA	Sam	pling Point:47	7	
Investigator(s):Ian Maunsell, Christina Congedo		Section, To	ownship, Ra	nge:Otay Mesa qu	ad, Otay	(Estudillo) l	and gra	nt
Landform (hillslope, terrace, etc.): terrace		Local relie	f (concave,	convex, none):conc	ave	Slop	oe (%):5	
Subregion (LRR):C - Mediterranean California	Lat:32.5	59808		Long:-116.94374		 Datur	n:NAD-	-83
Soil Map Unit Name: Olvenhain Cobbly Loam				NWI cla	ssification	Palustrine		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No ((If no, explain	ı in Remar	ks.)		
Are Vegetation Soil or Hydrology sign	gnificantly	disturbed?	Are "	Normal Circumstand	es" prese	nt? Yes 💿	No (\circ
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eded, explain any a	nswers in I	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point lo	cations, transe	cts, imp	ortant fea	ıtures,	etc.
Hydrophytic Vegetation Present? Yes No	•							
•		ls t	he Sampled	Area				
Wetland Hydrology Present? Yes No Remarks:		with	nin a Wetlar	id? Yes	•	No 🔘		
VEGETATION								
	Absolute	Dominant	Indicator	Dominance Test	workshee	t:		
	% Cover	Species?		Number of Domina				
1. <u>None</u>	0	No		That Are OBL, FA			((A)
2				Total Number of D	ominant			
3				Species Across Al	l Strata:	3	(B)
4	0.00			Percent of Domina				
Sapling/Shrub Stratum Total Cover:	: 0 %			That Are OBL, FA	CW, or FA	C: 0.0) % (A/B)
1.None	0	No		Prevalence Index	workshe	et:		
2.				Total % Cove	r of:	Multiply	<u>/ by:</u>	
3				OBL species	10	x 1 =	10	
4				FACW species		x 2 =	0	
5	0			FAC species	-	x 3 =	0	
Total Cover: Herb Stratum	0 %			FACU species UPL species	5	x 4 = x 5 =	20 360	
1.Psilocarphus tenellus	10	No	OBL	Column Totals:	72 87	(A)	390	(B)
2.Logfia filaginoides	30	Yes	Not Listed	Column Totals.	8/	(A)	390	(D)
3. Brassica nigra	20	Yes	Not Listed	Prevalence I			4.48	
4. Hypochaeris glabra	17	Yes	Not Listed	Hydrophytic Veg				
5. Schismus barbatus	5	No	Not Listed	Dominance Te				
6. Erodium botrys	5	No	FACU	Prevalence In				
7				Morphological data in Rei		ns (Provide s n a separate :		ıg
8.				Problematic H	lydrophytic	: Vegetation ¹	(Explain))
Total Cover:	87 %							
1.None	0	No		¹ Indicators of hydi	ric soil and	l wetland hyd	irology m	nust
2.				be present.				
Total Cover:				Hydrophytic Vegetation				
	of Biotic C		0/0	Present?	Yes 🖯	No 💿		
Remarks: Disturbed vegetation on road berm and wi	thin road	ı rut.						

Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type¹ Loc²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Ro	·		L=Pore Lining, M=Matrix.
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) Restrictive Layer (if present):	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)	1 cm Muck (AS 2 cm Muck (AS Reduced Verti Red Parent Ma Other (Explain	o) (LRR C) 10) (LRR B) c (F18) aterial (TF2) in Remarks) ophytic vegetation and must be present,
Type:	ocumented presence of San Diego fairy	Hydric Soil Presen shrimp. Hydric soils a	
YDROLOGY 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) X 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 R Presence of Reduced Iron (C4) Thin Muck Surface (C7) Recent Iron Reduction in Plowed Soils Other (Explain in Remarks)	Water Ma Sediment Drift Depo Drainage Oots (C3) Dry-Seas Crayfish I Saturation S (C6) Shallow A	dicators (2 or more required) urks (B1) (Riverine) Deposits (B2) (Riverine) Desits (B3) (Riverine) Patterns (B10) On Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Aquitard (D3) tral Test (D5)
Water Table Present? Yes ● No		etland Hydrology Prese	nt? Yes ● No ○
Remarks:Thin soil cracks and evidence of			tration).

2. Erodium botrys 3. Elymus triticoides 4. Lepidium nitidum 2 No FAC 4. Lepidium nitidum 2 No FAC 5. Prevalence Index = B/A = 3.17 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum 1. None 0 No 2. Hydrophytic vegetation¹ (Explain) Hydrophytic vegetation¹ (Explain) Hydrophytic vegetation Present. Hydrophytic vegetation Hydrophytic vegetation Present? Yes ● No ○	ship, Range: T18S, R01W, Sec. 24, Otay Mesa quadrangle concave, convex, none): concave Slope (%):0 Long:-116.93942 Datum: NAD-83 NWI classification: Palustrine No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) coint locations, transects, important features, etc. sampled Area Wetland? Yes No (If needed, explain any answers in Remarks.) immediately adjacent to natural claypan vernal pool scator Automatical Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
Landform (hillslope, terrace, eta.): missa Subregion (LRR).C - Mediterranean Califromia Lat-32.59121 Loga-116.33942 Datum:NAD-83	Incave, convex, none): concave Slope (%):0 Long:-116.93942 Datum: NAD-83 NWI classification: Palustrine No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) Incint locations, transects, important features, etc. Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes (If needed, explain any answers in Remarks.) Implied Area A Wetland? Yes (If needed, explain any answers in Remarks.)
Subregion (LRR) C - Mediterranean California Lat; 32.59121 Long:-116,93942 Datum: NAD-83 Soil Map Unit Name: Stockpen gravelly clay loum Are climatic / hydrologic conditions on the site typical for this time of year? Yes (NWI classification: Palustrine No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) coint locations, transects, important features, etc. ampled Area Wetland? Yes No (If needed, explain any answers in Remarks.) immediately adjacent to natural claypan vernal pool immediately adjacent to natural claypan vernal pool icator Author Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
Submark Cambridge Cambri	NWI classification: Palustrine No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) coint locations, transects, important features, etc. ampled Area Wetland? Yes No (If needed, explain any answers in Remarks.) immediately adjacent to natural claypan vernal pool immediately adjacent to natural claypan vernal pool icator Author Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
No Solidary Unit Name: Stockpen gravelly clay loam	NWI classification: Palustrine No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) coint locations, transects, important features, etc. ampled Area a Wetland? Yes No (If needed, explain any answers in Remarks.) immediately adjacent to natural claypan vernal pool immediately adjacent to natural claypan vernal pool icator August Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
Are climatic / hydrologic conditions on the site typical for this time of year? Yes (*) Are Vegetation (*) Soi (*) or Hydrology (*) significantly disturbed? Are Vegetation (*) Soi (*) or Hydrology (*) anaturally 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 (*) No (*) Is the Sampled Area (*) Wetland Hydrology Present? Yes (*) No (*) Within a Wetland? Yes (*) No (*) No (*) Is the Sampled Area (*) Wetland Hydrology Present? Yes (*) No (*	No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) point locations, transects, important features, etc. Itampled Area A Wetland? Yes No (If needed, explain any answers in Remarks.) Important features, etc. Important features, et
Are Vegetation Soil or Hydrology alignificantly 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 No Soil Present? Yes No No No Soil Present? Yes No No No Soil Present? Yes No No Soil Present? Yes No No No Soil Present? Yes No No Soil Present? Yes No No No Soil Present? Yes No No Soil Present? Yes No No No No Soil Present? Yes No No No No Soil Present? Yes No No No Soil Present? Yes No No No No Soil Present? Yes No No No No Soil P	Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) Noint locations, transects, important features, etc. No Mampled Area Wetland? Yes No immediately adjacent to natural claypan vernal pool No Mampled Area Wetland? Yes No immediately adjacent to natural claypan vernal pool No Mampled Area Wetland? Yes No immediately adjacent to natural claypan vernal pool Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Wattand Hydrophytic Vegetation Present? Yes No Wattand Hydrophytic Vegetation disturbed due to location with access road. Data point immediately adjacent to natural claypan vernal pool habitat to the west. VEGETATION Tree Stratum (Use scientific names.) Absolute Only No Stratum (Use scientific names.) No No Saling Shrub Sh	(If needed, explain any answers in Remarks.) point locations, transects, important features, etc. ampled Area a Wetland? Yes No immediately adjacent to natural claypan vernal pool immediately adjacent to natural claypan vernal pool icator atus Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Remarks: Vegetation disturbed due to location with access road. Data point immediately adjacent to natural claypan vernal pool habitat to the west. VEGETATION Tree Stratum (Use scientific names.) 1.None No No Sapling/Shrub Stratum 1.None No No Total Cover: 3.	ampled Area a Wetland? Total Number of Dominant A Wetland Substitute of
Hydrophytic Vegetation Present? Hydrophytic Vegetation of Issues Remarks: Vegetation of Starture due to location with access road. Data point immediately adjacent to natural claypan vernal pool habitat to the west. VEGETATION Tree Stratum (Use scientific names.) 1.None	immediately adjacent to natural claypan vernal pool icator atus Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Remarks: Vegetation disturbed due to location with access road. Data point immediately adjacent to natural claypan vernal pool habitat to the west. **VEGETATION** Tree Stratum (Use scientific names.) 1.None Absolute O No No No Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B Prevalence Index worksheet: Total Cover: 0 % Herb Stratum Total Cover: 0 % Herb Stratum 1.P. Silocarphus teneflus 1.P.	immediately adjacent to natural claypan vernal pool icator atus Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Remarks: Vegetation disturbed due to location with access road. Data point immediately adjacent to natural claypan vernal pool habitat to the west. **VEGETATION** Tree Stratum (Use scientific names.) 1.None Absolute O No No No Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B Prevalence Index worksheet: Total Cover: 0 % Herb Stratum Total Cover: 0 % Herb Stratum 1.P. Silocarphus teneflus 1.P.	immediately adjacent to natural claypan vernal pool icator atus Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
Wetland Hydrology Present? Yes No within a Wetland? Yes No Remarks: Vegetation disturbed due to location with access road. Data point immediately adjacent to natural claypan vernal pool habitat to the west. VEGETATION Tree Stratum (Use scientific names.) Absolute % Cover Species? Status Status Species Across All Strata: 2 (B) 1.None 0 No Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) 3. 1.None 0 No Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (AB 1.None 0 No Prevalence Index worksheet: That Are OBL, FACW, or FAC: 50.0 % (AB 1.None 0 No Prevalence Index worksheet: That Are OBL, FACW, or FAC: 50.0 % (AB 1.None 0 No Prevalence Index worksheet: That Are OBL, FACW, or FAC: 50.0 % (AB 1.None 0 No Prevalence Index worksheet: That Are OBL, FACW, or FAC: 50.0 % (AB 1.None 0 No Prevalence Index worksheet: That Are OBL, FACW, or FAC: 50.0 % (AB 1.None 0 No Prevalence Index worksheet: That Are OBL, FACW, or FAC: 50.0 % (AB 1.None 0 No Prevalence Index worksheet: That Are	immediately adjacent to natural claypan vernal pool icator atus Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
None	immediately adjacent to natural claypan vernal pool icator atus Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant
Absolute Dominant Indicator Species Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	icator atus Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
Absolute	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant
Absolute	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant
Absolute Species Status Indicator Species Status Number of Dominant Species That Are OBL, FACW, or FAC:	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant
Absolute Species Statum Court Species Status Status Status Species Status	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant
Number of Dominant Species	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant
1.None 1.Non	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
2.	Total Number of Dominant
3.	
A	Species Across All Strata.
Total Cover: 0 % Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B	
1.None	·
2. 3. 4. 5.	That are OBL, FACW, or FAC: 50.0 % (A/B)
3.	Prevalence Index worksheet:
4.	Total % Cover of: Multiply by:
FAC species 12 x 3 = 36 FACU species 12 x 3 = 36 FACU species 5 x 4 = 20 UPL species x 5 = 0 Column Totals: 18 (A) 57 (B) Erodium botrys 5 Yes FACU 3 Elymus triticoides 10 Yes FAC Prevalence Index = B/A = 3.17 4 Lepidium nitidum 2 No FAC Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum 1.None 0 No No ¹Indicators of hydric soil and wetland hydrology mus be present. Woody Vine Stratum 70 Indicators of hydric soil and wetland hydrology mus be present. Hydrophytic Vegetation Yes No No	OBL species 1 x 1 = 1
Total Cover: 0 % FACU species 5 x 4 = 20	FACW species x 2 = 0
Herb Stratum 1. Psilocarphus tenellus 1 No OBL Column Totals: 18 (A) 57 (EST Column	FAC species 12 x 3 = 36
1. Psilocarphus tenellus 2. Erodium botrys 3. Elymus triticoides 4. Lepidium nitidum 5. S. Yes FAC 4. Lepidium nitidum 5. S.	3
2. Erodium botrys 3. Elymus triticoides 4. Lepidium nitidum 2 No FAC 4. Lepidium nitidum 5. Dominance Test is >50% 6. Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum 1. None 0 No 1 Indicators of hydric soil and wetland hydrology must be present. Total Cover: 0 % Bare Ground in Herb Stratum 93 % % Cover of Biotic Crust 0 % Hydrophytic Vegetation Present? Yes No No	UPL species x 5 = 0
3. Elymus triticoides 4. Lepidium nitidum 2 No FAC Dominance Test is >50% Prevalence Index = B/A = 3.17 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Moody Vine Stratum 1. None 1. None 1. None 0 No 1 Indicators of hydric soil and wetland hydrology mus be present. Total Cover: 0 % Bare Ground in Herb Stratum 93 % Cover of Biotic Crust 0 % Hydrophytic Vegetation Yes Prevalence Index = B/A = 3.17 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index = B/A = 3.17 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index = B/A = 3.17 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index = B/A = 3.17	
## A Lepidium nitidum 10	
5. Dominance Test is >50% 6. Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1. None 1. None 2. Total Cover: 0 % Was Bare Ground in Herb Stratum 93 % Cover of Biotic Crust 0 % We Cover of Biotic Crust 0 % Prevalence Index is ≤3.0¹ Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes No Cover of No Cov	
Prevalence Index is ≤3.0¹ Output None Total Cover: 18 % Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	
7	
8.	Morphological Adaptations ¹ (Provide supporting
Total Cover: 18 % Woody Vine Stratum 1.None 0 No No ¹Indicators of hydric soil and wetland hydrology must be present. 2. Total Cover: 0 % Hydrophytic Vegetation Vegetation % Bare Ground in Herb Stratum 93 % % Cover of Biotic Crust 0 % Present? Yes ● No ○	data in Remarks or on a separate sheet)
Woody Vine Stratum 1.None 0 No 1Indicators of hydric soil and wetland hydrology must be present. Total Cover: 0 % 8 Bare Ground in Herb Stratum 93 % % Cover of Biotic Crust 0 % Present? Yes ● No ○	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Total Cover: 0 % Hydrophytic Vegetation Present? Yes • No C	
Total Cover: 0 % Hydrophytic Vegetation 8 Bare Ground in Herb Stratum 93 % % Cover of Biotic Crust 0 % Present? Yes No C	¹ Indicators of hydric soil and wetland hydrology must
% Bare Ground in Herb Stratum 93 % Cover of Biotic Crust 0 % Present? Yes No	be present.
% Bare Ground in Herb Stratum 93 % Cover of Biotic Crust 0 % Present? Yes • No	
	-
	assumed due to adjacent undisturbed vernal pools and
strong hydrological materiols.	assumed due to adjacent undisturbed vernal pools and
strong hydrological indicators.	

SOIL Sampling Point: $\underline{48}$

1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) 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 Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) 3 Indicators: (Applicable to all LRRs, unless otherwise noted.) Redox (S5) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Redox Dark Surface (F6) Redox Depressions (F8) 3 Indicators: (Applicable to all LRRs, unless otherwise noted.) Wether the surface of	2Location: PL=Pore Lining, M=Matrix. ators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2)
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	ators for Problematic Hydric Soils: I cm Muck (A9) (LRR C) C cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2)
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Black Histic (A3)	Reduced Vertic (F18) Red Parent Material (TF2)
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Sandy Gleyed Matrix (S4) Destrictive Layer (if present): Type: Depth (inches): Depth (inches): Deth (inches): Depth (inches):	cators of hydrophytic vegetation and
Type: Depth (inches): Hydriver (if present): Hydriver (and hydrology must be present,
Depth (inches): Depth (inches):	ess disturbed or problematic.
Depth (inches): Hydricemarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil pit was dug due to the documented presence of San Diego fairy shrimp. Femarks: No soil crust (B11) Surface Water (A1)	
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Approved the documented presence of San Diego fairy shrimp. For th	c Soil Present? Yes No
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Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches):	Drainage Patterns (B10)
Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Recent Iron Reduction in Plowed Soils (C6) Other (Explain in Remarks) ield Observations: surface Water Present? Yes No Depth (inches):	□ ` ` '
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Inundation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches):	Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) Gurface Water Present? Other (Explain in Remarks) Depth (inches):	Saturation Visible on Aerial Imagery (
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100 0 100 100 100 100 100 100 100 100 1	FAC-Neutral Test (D5)
Caturation Present? Yes No O Depth (inches): Wetland Hyd	FAC-Neutral Test (D5)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availa	
3 · · · · · · · · · · · · · · · · · · ·	rology Present? Yes No
	rology Present? Yes No
Remarks:Soil cracks and water marks present.	rology Present? Yes No
	rology Present? Yes No