Appendix 4.9-A

Jurisdictional Delineation Report

SAN DIEGO GAS & ELECTRIC COMPANY
TL695/6971 RECONDUCTOR PROJECT

PRELIMINARY JURISDICTIONAL DELINEATION REPORT

Prepared for:
SAN DIEGO GAS & ELECTRIC COMPANY
8315 Century Park Court
San Diego, CA 92123

Prepared by:

Pangea Biological
374 North Coast Highway 101, Suite B
Encinitas, CA 92024

Borcher Environmental Management
10017 Ranchitos Place
Lakeside, CA 92040

November 2015

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

APPENDIX

1.0 INTRODUCTION

Project Summary

In an effort to eliminate a North American Electric Reliability Corporation Category B violation and to improve service reliability, SDG&E proposes to replace existing conductor, removing existing wood pole structures, and install new steel pole structures along an approximately 10-mile-long 69 kilovolt (kV) power line in northern San Diego County and southern Orange County. The power line is located primarily on federal military lands in the western portion of Marine Corps Base (MCB) Camp Pendleton. (Figure 1).

Purpose

This report documents a preliminary jurisdictional delineation performed by Pangea Biological (Pangea) and Borcher Environmental Management in support of SDG&E's proposed TL695/6971 Reconductor Project. The purpose of the delineation was to identify wetlands and waters under jurisdiction of the Army Corps of Engineers (ACOE) pursuant to Section 404 of the Clean Water Act (CWA), Regional Water Quality Control Board (RWQCB) pursuant to Section 401 of the CWA, California Department of Fish and Wildlife (CDFW) pursuant to Section 1602 of the Fish and Game Code, and California Coastal Commission (CCC) pursuant to the Coastal Act.

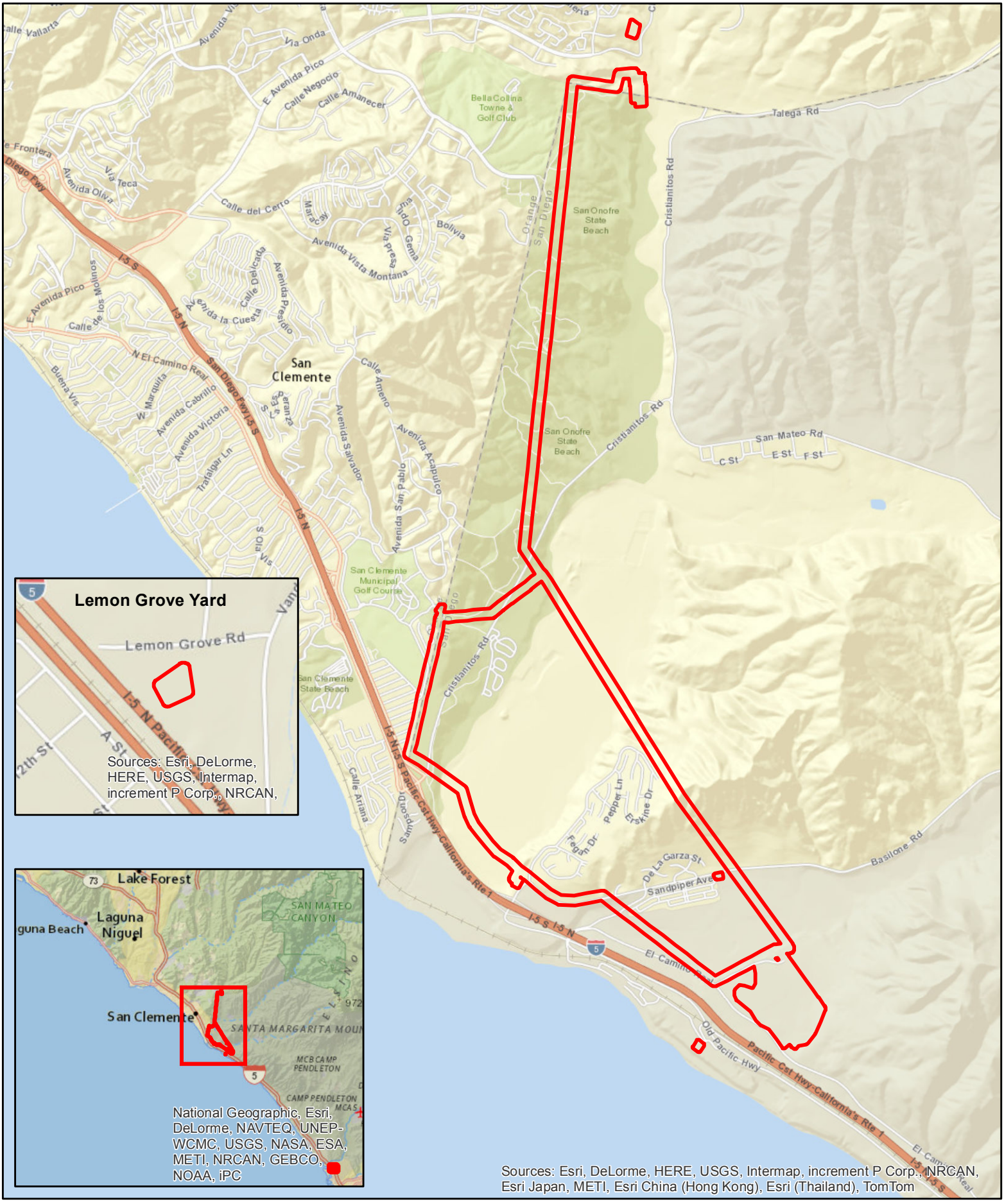
The jurisdictional delineation included an evaluation of a 150-foot buffer on either side of the centerline of the entire length of the proposed route (survey corridor; Figure 1). The survey also included the proposed Basilone, Lemon Grove, San Mateo, SDG&E Lot 4, SONGS Mesa, and Talega (1) staging yards.

Other proposed project components (such as other staging yards, stringing sites, turnaround areas, etc.) outside of the survey corridor added after initial surveys had been conducted will be surveyed in spring 2016, to determine the jurisdictional resources within these areas. The results of these surveys will be submitted as a supplement to this report.

The survey corridor contains jurisdictional resources subject to regulation by the ACOE, RWQCB, CDFW, and CCC. This jurisdictional delineation report describes the project site and existing conditions, discusses the regulations that govern the jurisdictional resources located on the site, outlines the methodology used to conduct the delineation, and presents the results of the study.

2.0 METHODS

Methodology followed the ACOE Regional Supplement Wetland Delineation Manual: Arid West Region (Version 2.0) guidelines, and consisted of preliminary data gathering and research, field assessment surveys, digital mapping, and documentation of final boundary determinations.



0 0.25 0.5 0.75 1 Mile

Created by Pangea Biological, September 2015
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Draft

25240 TL 695/6971 Reconductor Project
Figure 1: Tie Line 695/6971 Project Location Overview

Survey_corridor

Pangea Biological

Preliminary Review

Prior to conducting the field delineation assessment, the following information sources were reviewed to evaluate potential ACOE, CDFW, RWQCB, and CCC jurisdiction:

- SDG&E's aerial photographs;
- United States Geologic Survey (USGS) 7.5-degree minute topographic quadrangle maps;
- United States Department of Agriculture Natural Resources Conservation Service (NRCS) soil survey maps;
- United States Fish and Wildlife Service (USFWS) National Wetland Inventory GIS data; and
- USGS National Hydrological Dataset GIS data for modeling of streams to evaluate possible stream features.

Regulatory Jurisdiction Overview

U.S. Army Corps of Engineers Waters

Section 404 of the Clean Water Act gives the U.S. Environmental Protection Agency (EPA) and the ACOE regulatory and permitting authority regarding discharge of dredged or fill material into "waters of the United States". The term "waters of the United States" is defined by 33 Code of Federal Regulations (CFR) Part 328 and currently includes;

- waters used for commerce;
- interstate waters and wetlands;
- "other waters" such as intrastate lakes, rivers, streams, and wetlands;
- impoundments of waters;
- tributaries to the above waters;
- territorial seas; and
- wetlands adjacent to waters.

In December 2008, in response to the Supreme Court's decision in the combined cases of Rapanos v. U.S. and Carabell v. U.S. (126 S. Ct. 2208; 2006), the EPA and ACOE issued final guidance on the scope of regulatory jurisdiction under the CWA, including Section 404 (EPA and ACOE 2007). The guidance specifies that EPA and ACOE will assert jurisdiction over the following waters:

- **Traditional Navigable Waters (TNWs).** TNWs are all waters subject to the ebb and flow of the tides, and waters that are presently used, have been used in the past, or may be susceptible for use to transport interstate or foreign commerce (33 CFR 328.3(a)(1)).

- **Wetlands adjacent to TNWs.** Wetlands are defined as cited above (see also Methodology below). The term "adjacent" means bordering, contiguous, or neighboring, meeting one of the following criteria: 1) there is an unbroken surface or shallow sub-surface connection to the TNW; 2) the wetland is physically separated from

the TNW artificially by a human-made dike, or by natural barrier such as a berm or dune; or 3) the wetland is reasonably close to the TNW, such that direct ecological interconnections are present (40 CFR Part 230).

- **Non-navigable, but relatively permanent waters (RPWs) that are tributaries to TNWs.** These are waters that typically flow year-round or continuously for at least three months. The boundaries of such waters are determined by the limits of ordinary high water (33 CFR part 328.3).

- **Wetlands adjacent to RPWs.** The guidance stipulates that a continuous surface connection must be present between the wetland and RPW. If such connection is not present, additional criteria must be satisfied (see next bullet).

- **Non-RPWs and adjacent wetlands with a significant nexus to TNWs.** To establish (or rule out) a significant nexus requires an assessment of the flow characteristics and functions of the tributary and any adjacent wetland to determine if they significantly affect the chemical, physical, and biological integrity of downstream navigable waters.

The guidance states that swales or erosional features (e.g., gullies, small washes characterized by low volume, infrequent or short-duration flow) and ditches excavated in uplands are generally not jurisdictional because they are not tributaries or do not have a significant nexus to downstream TNWs. The same reasoning would indicate that isolated bodies of water and isolated wetlands without a demonstrated relationship to interstate commerce would generally not be considered jurisdictional. The Supreme Court ruling in SWANCC v. U.S. (121 S. Ct. 751; 2001) indicated that the movement of migratory birds to/from an isolated body of water was not sufficient evidence of interstate commerce.

The waters of the U.S. do not include; (1) waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA, and (2) prior converted cropland.

U.S. Army Corps of Engineers Wetlands

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

The methodology set forth in the 1987 Wetland Manual and updated by the Arid West Supplement generally requires that, in order to be considered a wetland, the vegetation,

soils, and hydrology of an area must exhibit at least minimal hydric characteristics. Wetlands are determined by and delineated using three parameters: hydrophytic vegetation, wetland hydrology, and hydric soils. Additional details regarding these parameters include;

Greater than 50 percent of the dominant plant species at the site must be typical of wetlands (i.e., rated as facultative or wetter in the Arid West 2012 Final Regional Wetland Plant List: National Wetland Plant List (Lichvar 2012). These plants are known as "hydrophytic vegetation."

Wetland hydrology "…encompasses *all hydrologic characteristics of areas that are periodically inundated or have soils saturated to the surface at some time during the growing season*" (Environmental Laboratory 1987). Inundation or saturation must occur for at least five percent of the growing season to qualify as wetland hydrology with the degree of saturation varying from year to year depending on rainfall patterns.

Soils must exhibit physical and/or chemical characteristics indicative of saturation (e.g., a gleyed color or mottles with a matrix of low chroma indicating a relatively consistent fluctuation between aerobic and anaerobic conditions). Such soils, known as "hydric soils," have characteristics that indicate they are developed in conditions where soil oxygen is limited by the presence of saturated soil for long periods during the growing season. Other typical characteristics of areas with hydric soils include; high groundwater table and evidence of prolonged soil saturation.

Hydrophytic Vegetation

When conducting jurisdictional evaluations, plants are categorized according to their probabilities to occur in wetlands versus non-wetlands in accordance with the categories in the Arid West 2012 Final Regional Wetland Plant List: National Wetland Plant List (Lichvar 2012). The hydrophytic categories are:

- Obligate Wetland (OBL) – occur almost always (estimated probability >99 percent) under natural conditions in wetlands
- Facultative Wetland (FACW) – usually occur in wetlands (estimated probability 67 to 99 percent), but occasionally found in non-wetlands
- Facultative (FAC) – equally likely to occur in wetlands or non-wetlands (estimated probability 34 to 66 percent)

Plant species and absolute percent covers are recorded by stratum (i.e., tree, sapling/shrub, herb, woody vine) and evaluated for dominance and prevalence according to guidelines in the 1987 Manual and Arid West Supplement. Naming conventions follow the Jepson Manual (Baldwin 2012).

Hydrology

Pangea and Borcher Environmental Management reviewed hydrologic information for the survey area including USGS topographic maps and hydrology indicators identified in the field. Indicators of hydrology evaluated in the field include; standing or flowing water, water drainage patterns, water-logged soils during the growing season, water marks present on trees or other objects associated with a drainage, drift lines, flow lines or small piles of debris oriented in the direction of water movement through an area, destruction of terrestrial vegetation by water flow, and/or thin layers of sediments deposited on leaves or other objects. Other indicators evaluated (based on the 2008 Arid West Supplement) include; surface soil cracks, inundation visible on aerial imagery, salt and biotic crusts, aquatic invertebrates, hydrogen sulfide odor and evidence of oxidation/reduction reactions within the soil profile.

Hydric Soils

Soils were not evaluated in the field due to the high potential for cultural resources. For the purpose of determining jurisdiction all soils were assumed to be hydric. No soil pits were excavated.

California Department of Fish and Wildlife

Under sections 1600-1607 of the Fish and Game Code, CDFW regulates all activities that would divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife.

CDFW defines a "stream" (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation." CDFW's definition of "lake" includes "natural lakes or man-made reservoirs." CDFW limits of jurisdiction include the outer edge of riparian vegetation drip line or at the top of the uppermost bank-to-bank distance, whichever is wider.

Regional Water Quality Control Board

The State of California (State) regulates discharge of material into waters of the State pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act (California Water Code, Division 7, §13000 et seq.). State waters are all waters that meet one of three criteria; hydrology, hydric soils, or wetland vegetation, and generally include all waters under the jurisdiction of ACOE and CDFW.

Preliminary Jurisdictional Determination

Under RGL 08-02, dated June 26, 2008, ACOE established an alternative to the approved JD process: the "preliminary JD." A preliminary JD is a non-binding written indication that there may be waters of the United States, including wetlands, on a project site and identifies the approximate location of these features. Preliminary JDs are used when a landowner, permit applicant, or other affected party elects to voluntarily waive or set aside

questions regarding CWA jurisdiction over a particular site, usually in the interest of allowing the landowner to move ahead expeditiously to obtain 404 authorization where the party determines that it is in his or her best interest to do so. A preliminary JD is not an official determination regarding the jurisdictional status of potentially jurisdictional features and has no bearing on approved JDs. A preliminary JD cannot be used to confirm the absence of jurisdictional waters or wetlands, is advisory in nature, and cannot be appealed. It is considered "preliminary" because a recipient can later request an approved JD if one is necessary or appropriate.

California Coastal Commission

The CCC regulates development within the coastal zone and actively participates in the environmental review process through the filing of a coastal development permit. During this process the CCC determines consistency with the Coastal Act. In the coastal zone, the CCC, with the assistance from CDFW is responsible for determining the presence and size of wetlands subject to regulation under the Coastal Act. Wetlands are determined by the presence of one or more key characteristics: hydrology, hydric soils, and hydrophytic vegetation. Functions and values of wetlands proposed to be impacted must be analyzed, and alternatives must be assessed prior to determining the appropriateness of mitigation. For this project only the most western portion of the project alignment occurs within the coastal zone. These areas are identified in Appendix A.

Field Assessment Surveys

Field assessment surveys were conducted to confirm the potential jurisdictional areas identified in the in-office reconnaissance process and to delineate those areas of interest within the survey area for the potential presence of water resources. To assist with the field analysis, a customized data dictionary was uploaded onto the Global Positioning System (GPS) unit to allow field surveyors to select specific feature data.

In the field, boundaries and dimensions of jurisdictional wetland and water features were recorded utilizing a sub-meter GPS unit, on field maps, and field notes. Features within the survey area were investigated for the presence of drainages, including culverts, water bodies, riparian vegetation, potential wetlands, and connectivity to jurisdictional waters.

3.0 RESULTS

The results presented in this report illustrate the site conditions at the time of the investigation. This wetland delineation was performed during a period of severe drought that has lasted four years. Therefore, site conditions, especially related to hydrological indicators are naturally problematic. However, for this project, hydrological indicators were generally clear and present.

Field Assessment Surveys and Conditions

Pangea biologist, Dawn Huss and Borcher Environmental Management biologist, Andrew Borcher conducted a wetlands and waters determination and delineation assessment of

the project area from June 1 thru June 5, 2015 and a subsequent survey on October 2, 2015. Areas with and without hydrophytic vegetation were observed within the survey area. Areas with hydrophytic vegetation, in general, were considered potential wetland sites. Areas without hydrophytic vegetation were considered upland, unless evidence suggested that a wetland or other jurisdictional water might occur at the particular location. Sample point locations were determined based on the potential presence of water features and analyzed for the presence or absence of jurisdictional limits. A total of 34 sample points were evaluated, and 26 jurisdictional features were identified (Appendix A). The results of the analysis regarding vegetation, soils, and hydrology are presented in the following section. In addition to jurisdictional features, other water conveyance features were mapped (Appendix A). These include natural swales, erosional gulls/rills, concrete brow/v-ditches, storm drain inlets/outlets, road shoulder chutes and culverts.

Within the survey area, the eastern portion of the project alignment starts north of MCBCP near the Talega Substation, spans across several small canyons and valleys supporting ephemeral and intermittent channels, crosses San Mateo and San Onofre Creeks and ends near the Songs Mesa Facility (SONGS). The western portion of the alignment starts at the SONGS and continues north also crossing both San Mateo and San Onofre Creeks in addition to ephemeral channels and vegetated basins. All jurisdictional features have a surface flow connection draining directly or through tributaries into San Mateo Creek or San Onofre Creek. Both San Mateo and San Onofre Creeks drain directly into the Pacific Ocean within 0.5 mile west of the project alignment.

Vegetation

The upland areas of the survey area supported sage scrub, chaparral, and grassland communities. The intermittent channels, creek floodplains and vegetated basins support southern willow scrub, mule fat scrub, alkali marsh, emergent wetland, willow riparian forest, and sycamore willow riparian forest. Vegetation communities are described further in the short descriptions of each feature listed below.

The eastern portions of both the San Mateo and San Onofre Creeks support mule fat scrub dominated by mule fat (*Baccharis salicifolia*). Both the San Mateo Creek crossings and the lower portion of the San Onofre Creek support mature riparian habitat including willow scrub and riparian forest dominated by willow (*Salix* spp.). The flood plains of both of the western portion of the creeks also support adjacent sycamore willow riparian forest dominated by western sycamore (*Platanus racemosa*) and willow trees. Other intermittent channels, and wetter areas adjacent to the creeks and vegetated basins, support dense patches of southern willow scrub, mule fat scrub and sometimes freshwater marsh.

Hydrology

A variety of hydrological indicators were observed within the jurisdictional features. The smaller ephemeral channels had evidence of recent flow by the presence of sediment deposits, surface soil cracks and sometimes drifts deposits. The larger flood plains of both San Mateo and San Onofre Creeks displayed surface soil cracks, sediment deposits, water-

stained leaves, drift deposits, and inundation visible on the aerials. Both creeks were completely dry during the time of the surveys. Intermittent drainages and vegetated basins either consisted of flowing or pooled water, or were saturated during the time of the survey. Vegetated basins or lower areas of the intermittent channels were observed in several locations throughout the survey area. Areas that supported some hydrophytic vegetation but were dominated by upland vegetation generally supported scattered mule fat and California sagebrush (*Artemisia californica*), elderberry (*Sambucus nigra*), California buckwheat (*Eriogonum fasciculatum*), and coyote bush (*Baccharis pilularis*).

Soils

The Soil Survey of San Diego and Orange, County and digital soil maps from NRCS' SSURGO 2.2 Database were consulted for this jurisdictional evaluation (NRCS 2015) and the mapped soil units occurring within the areas are summarized in Table 1. Terrace escarpments, tidal flats, riverwash and 10 soil series were identified within the mapped potential jurisdictional area (see table below). (USDA 1973).

No soil samples were collected due to the high probability of cultural resources. All sample points were assumed to contain hydric soils.

Data Sample Points

A total of 37 sample locations were evaluated (Appendix A). Some of the sample locations were paired on opposite sides of the upland-wetland boundary, based on clear dominance by either wetland or non-wetland plant species. In areas where a clear boundary was formed by a sudden elevation change (i.e. road or bench edge) then a pair sample point was not taken. For each location, an arid west wetland determination form was completed and a number was assigned. These were numbered 1 through 37 in the order that the project alignment is displayed in the map book (Appendix A).

A sub-meter GPS was used to record sample locations, and along the wetland upland boundary. Supporting photographs and data forms are included in Appendix B and C, respectively. Observations and data in support of the delineation are summarized below. Figure 2 shows the delineation of areas determined to be jurisdictional by ACOE, RWQCB and CDFW, just CDFW, and CCC.

Twenty-six features were identified jurisdictional to ACOE, RWQCB, and CDFW including 5 jurisdictional to the CCC. Some features supported areas determined to be ACOE, RWQCB, and CDFW wetland, but also supported non-wetland open channel, and CDFW jurisdictional adjacent riparian vegetation. Data forms were completed for all 37 sample locations (Appendix C). Each feature including some sampling results are discussed below. Jurisdictional acreage within the survey area of each feature is shown in Table 2 below the discussion section.

Table 1: Mapped Soils within Survey Area

Unit #	Unit Name	Drainage Class	Runoff Class	Taxonomic Class
100[1]	Alo clay, 30 to 50 percent slopes	Well	High	Fine, smectitic, thermic Aridic Haploxererts
127	Bosanko clay, 15 to 30 percent slopes	Well	Low	Fine, smectitic, thermic Aridic Haploxererts
128	Bosanko clay, 30 to 50 percent slopes	Well	Low	Fine, smectitic, thermic Aridic Haploxererts
134	Calleguas clay loam, 50 to 75 percent slopes	Well drained	Very high	Loamy, mixed, superactive, calcareous, thermic, shallow Typic Xerorthents
CbD	Carlsbad gravelly loamy fine sand, 9 to 15 percent slopes	Moderately well drained	Low	Sandy, mixed, thermic Entic Durixerepts
142	Cieneba sandy loam, 30 to 75 percent slopes	Somewhat excessive	Medium	Loamy, mixed, superactive, nonacid, thermic, shallow Typic Xerorthents
DaC	Diablo clay, 2 to 9 percent slopes	Well drained	Very high	Fine, smectitic, thermic Aridic Haploxererts
DaF	Diablo clay, 30 to 50 percent slopes	Well drained	Very high	Fine, smectitic, thermic Aridic Haploxererts
GaF	Gaviota fine sandy loam, 30 to 50 percent slopes	Well drained	Medium	Loamy, mixed, superactive, nonacid, thermic Lithic Xerorthents

[1] Soils mapped within Orange County consist of number code and soils mapped within San Diego County consist of a letter code.

Unit #	Unit Name	Drainage Class	Runoff Class	Taxonomic Class
173	Myford sandy loam, 15 to 30 percent slopes	Moderately well drained	Low	Fine-loamy, mixed, superactive, thermic Typic Palexeralfs
Rm	Riverwash	Excessive	Negligible	NA
TeF	Terrace escarpments	NA	NA	NA
Tf	Tidal flats	Poor	Negligible	NA
TuB	Tujunga sand, 0 to 5 percent slopes	Excessive	Negligible	Mixed, thermic Typic Xeropsamments
VaA	Visalia sandy loam, 0 to 2 percent slopes	Well	Very low	

Source: NRCS 2015

Table 2: Summary of Jurisdictional Wetlands and Riparian Areas in Survey Area

Wetland	Jurisdiction	Total Area (square feet)	Total Area (acres)
Feature 1	ACOE/RWQCB/CDFW Waters	439	0.010
	RWQCB/CDFW Streambed	869	0.020
Feature 2	ACOE/RWQCB/CDFW Waters	834	0.019
	RWQCB/CDFW Streambed	840	0.019
Feature 3	ACOE/RWQCB/CDFW Wetland	6,001	0.138
	CDFW Riparian	6,705	0.154
Feature 4	ACOE/RWQCB/CDFW Waters	405	0.009
	RWQCB/CDFW Streambed	818	0.019
Feature 5	ACOE/RWQCB/CDFW Wetland	2,444	0.056
Feature 6	ACOE/RWQCB/CDFW Waters	1,071	0.025
	RWQCB/CDFW Streambed	1,075	0.025
Feature 7	ACOE/RWQCB/CDFW Waters	521	0.012
	RWQCB/CDFW Streambed	522	0.012
Feature 8	ACOE/RWQCB/CDFW Waters	5,120	0.118
	RWQCB/CDFW Streambed	10,274	0.236
Feature 9	ACOE/RWQCB/CDFW Waters	1,301	0.030
	RWQCB/CDFW Streambed	1,301	0.030
Feature 10	ACOE/RWQCB/CDFW Waters	1,233	0.028
	CDFW Riparian	31,349	0.720
Feature 11	ACOE/RWQCB/CDFW Waters	458	0.011
	RWQCB/CDFW Streambed	459	0.011
Feature 12	ACOE/RWQCB/CDFW Waters	600	0.014
	RWQCB/CDFW Streambed	1,207	0.028
Feature 13 (San Mateo East)	ACOE/RWQCB/CDFW Waters	66,508	1.527
	ACOE/RWQCB/CDFW Wetland	23,602	0.542
	CDFW Riparian	107,006	2.457
Feature 14	ACOE/RWQCB/CDFW Waters	1,259	0.029
	RWQCB/CDFW Streambed	1,261	0.029
Feature 15 (San Onofre East)	ACOE/RWQCB/CDFW Waters	44,226	1.015
	RWQCB/CDFW Streambed	44,194	1.015
Feature 16	ACOE/RWQCB/CDFW Waters	979	0.022
	RWQCB/CDFW Streambed	2,956	0.068
Feature 17	ACOE/RWQCB/CDFW Wetland	8,909	0.205
	ACOE/RWQCB/CDFW Waters	2,002	0.046
	RWQCB/CDFW Streambed	2,016	0.046
Feature 18	ACOE/RWQCB/CDFW Wetland/CCC Wetland	40,714	0.935

Wetland	Jurisdiction	Total Area (square feet)	Total Area (acres)
Feature 19 (San Onofre West)	ACOE/RWQCB/CDFW Wetland/CCC Wetland	109,695	2.518
	ACOE/RWQCB/CDFW Waters/CCC Wetland	9,793	0.225
	CDFW Riparian/CCC Wetland	33,820	0.776
Feature 20	ACOE/RWQCB/CDFW Waters/CCC Wetland	991	0.023
	RWQCB/CDFW Streambed/CCC Wetland	1,419	0.033
Feature 21	ACOE/RWQCB/CDFW Wetland/CCC Wetland	196,489	4.511
Feature 22 (San Mateo West)	ACOE/RWQCB/CDFW Wetland/CCC Wetland	160,532	3.685
	CDFW Riparian/CCC Wetland	58,420	1.341
Feature 23	ACOE/RWQCB/CDFW Waters	1,829	0.042
	RWQCB/CDFW Streambed	3,062	0.070
	CDFW Riparian	21,072	0.484
Feature 24	ACOE/RWQCB/CDFW Waters	2,001	0.046
	RWQCB/CDFW Streambed	607	0.014
Feature 25	ACOE/RWQCB Wetland	6,307	0.145
Feature 26	ACOE/RWQCB Wetland	8,315	0.191
Total ACOE/RWQCB/CDFW Waters		***141,572***	***3.250***
Total ACOE/RWQCB/CDFW Wetland		***548,384***	***12.589***
Total RWQCB/CDFW Streambed		***72,881***	***1.673***
Total ACOE/RWQCB Wetland		***14,622***	***0.336***
Total CDFW Riparian		***258,372***	***5.931***
Total CCC Wetland		***58,420***	***1.341***

Feature 1 (Concrete Channel)

Feature 1 includes a large concrete channel that occurs in an area that would likely support a natural channel (Photo 2, Appendix A, Page 2). This feature drains the Talega Substation area including several concrete v-ditches and swales. The concrete channel transitions to earthen before conveying surface flow into a tributary to the east that connects with San Mateo Creek. One sample point was taken in the swale adjacent to the concrete channel west of Talega Substation (Photo 3). Sample Point 1 was not dominated by hydrophytic vegetation and clear signs of hydrology were not observed.

Feature 2 (Ephemeral Channel)

Feature 2 occurs west of, and eventually flows into Feature 1 via a swale (Appendix A, Page 4). Feature 2 clearly presented a bed and bank with indicators of hydrology (Sample Point 2; Photo 4). This feature is dominated by upland vegetation including coyote bush and brome grass (*Bromus diandrus*).

Feature 3 (Intermittent Channel and Wetland)

Feature 3 drains a large portion of the golf course and residential areas to the west (Appendix A, Page 5). This feature supports patches of southern willow scrub, mule fat scrub, emergent wetland, and alkali marsh adjacent to the project access road (Sample Points 5 to 8; Photos 6 to 8). The southern willow scrub occurs in a basin created by the road edge west of the access road. Water that does not sheet flow over the access road is directed under the access road via a 24-inch culvert. Two channels occur on the east side of the access road and eventually converge draining to the east into Cristianitos Creek (a tributary to San Mateo Creek). Surface water was observed in both channels and under the southern willow scrub patch at the time of the survey.

Feature 4 (Ephemeral Channel)

Feature 4 is a narrow ephemeral channel that occurs in a small valley that drains into Feature 3 east of the survey area (Appendix A, Page 6). Although, surface water was present at the time of the survey it was not dominated by hydrophytic vegetation (Sample Point 9; Photo 9). This suggests surface water is not present long enough to support wetland. Upland vegetation present within the channel included coyote bush and pampas grass (*Cortaderia selloana*).

Feature 5 (Intermittent Channel and Wetland)

Feature 5 drains the residential area and dog park to the west into a direct tributary to Cristianitos Creek (Appendix A, Page 7). This feature supports wetland including patches of southern willow scrub and emergent wetland (Sample Points 10 and 11; Photo 10). Although surface water was not present, water marks, sediment deposits, and saturation were observed.

Features 6 and 7 (Ephemeral Channels)
Both Features 6 and 7 consist of ephemeral channels that occur underneath a canopy of dense coastal sage scrub (Appendix A, Pages 8 and 9; Photos 11 and 12). These features both drain to the east into Cristianitos Creek.

Feature 8 (Ephemeral Channel)
Feature 8 occurs at the bottom of a steep eroded ravine (Appendix A, Pages 10 and 11). Surveyors were unable to access the bottom of the canyon but were able to assess the channel from above (Photo 13). It appeared to be only ephemeral in nature based on the lack of hydrophytic vegetation. This feature drains to the east into Cristianitos Creek.

Feature 9 (Ephemeral Channel)
Feature 9 consisted of a small channel under dense scrub and chaparral vegetation (Appendix A, Pages 12 and 13; Photo 14). This feature drains to the east into Cristianitos Creek.

Feature 10 (Intermittent Channel and Riparian Overstory)
Feature 10 occurs in a flatter valley that appears to hold water for longer than other nearby ephemeral channels (Appendix A, Page 16; Photos 15 and 16). Although no surface water was present, the valley bottom supported a southern willow scrub overstory. The understory was dominated by upland shrubs and grasses suggesting that the riparian area was supported by subsurface moisture or saturation during normal rainfall years (Sample Point 12). This feature drains east under Cristianitos Road and directly into San Mateo Creek.

Features 11 and 12 (Ephemeral Channels)
Both Features 11 and 12 occur in the lower portions of the southeast-facing foothills above San Mateo Creek (Appendix A, Pages 17 and 18; Photos 17 and 18). Both of these features drain under Cristianitos Road and directly into San Mateo Creek.

Feature 13 (San Mateo Creek, Wetland, Eastern Survey Area)
San Mateo Creek is a large sandy and rocky floodplain that drains portions of the Santa Ana Mountains, Santa Margarita Mountains, and foothills and mesas in Riverside, and Northern San Diego County that occur to the north and east (Appendix A, Page 19). To the west of the survey area, San Mateo Creek crosses under Interstate 5 and empties into a perennial freshwater lagoon bounded by a sandbar and San Onofre State Beach. On normal rainfall years, San Mateo Creek can support surface flow for several months, but also contains portions that resemble a wash. No surface water was present during the survey. The lower (in elevation) sections of the main channel supported wetland habitat mostly consisting of mule fat scrub (Sample Points 13, 15 and 17; Photos 19 to 25). The higher areas of the main channel were mostly unvegetated consisting of sand and rocks (Sample Points 14, 16, and 18; Photos 20, 22, and 24). The flood plain margins supported patches of mule fat scrub and southern willow scrub that are considered wetland (Sample Point 19, Photo 25).

Hydrology indicators included water-stained leaves, drift deposits, surface soil cracks and sediment deposits.

Feature 14 (Ephemeral Channel)

Feature 14 occurs in a steep eroded canyon on north-facing slopes (Appendix A, Page 23; Photo 27). Surveyors were unable to access the bottom of the canyon but were able to assess the channel from above. It appeared to be only ephemeral in nature based on the lack of hydrophytic vegetation. This feature drains to the north into the fields adjacent to San Mateo Creek. It is likely there is a surface connection to San Mateo Creek through an earthen swale that collects runoff throughout the fields.

Feature 15 (San Onofre Creek, Eastern Survey Area)

In this area, San Onofre Creek consists of a wide sandy and rocky floodplain with bench and braided channel areas (Appendix A, Page 29; Photos 28 to 30). San Onofre Creek drains a portion of the canyons and foothills of Camp Pendleton that occur to the east and southeast. San Onofre Creek drains directly into the Pacific Ocean approximately 1.3 miles to the west. Although the bench areas supported some mule fat, the creek channels and bench do not appear to hold water long enough to support wetland (Sample Points 20 and 21). Hydrology indicators included drift deposits, surface soil cracks, and sediment deposits.

Feature 16 (Ephemeral Channel)

Feature 16 occurs northwest of SONGS (Appendix A, Page 30). This feature starts at the base of a concrete v-ditch that drains flatter areas to the east and south, and drains directly into San Onofre Creek (Feature 15) to the north (Photo 31).

Feature 17 (Intermittent Channel and Wetland)

Feature 17 also occurs northwest of SONGS (Appendix A, Page 30). This channel generally consists of a flat sandy bottom that supports patches of riparian vegetation including western sycamore and willow (Sample Point 23; Photos 32 to 34). This feature eventually becomes an earthen swale that flows into a large human-made basin (Feature 18) adjacent to San Onofre Creek to the west.

Feature 18 (Wetland Overflow Basin)

Feature 18 is a large human-made basin constructed adjacent to San Onofre Creek (Appendix A, Page 35; Photos 36 and 37). This basin collects water from Feature 17, a rip-rap channel off-site to the west, and from concrete v-ditches northwest of SONGS. The lower portion of the basin that periodically holds water is vegetated with annual wetland plants including curly doc (*Rumex* sp.), cocklebur (*Xanthium strumarium*) and nut sedge (*Cyperus esculentus*) (Sample Point 24). Hydrology indicators included sediment deposits and surface soil cracks. This basin appears to have been created as flood control, but would connect with San Onofre Creek if over-filled.

Feature 19 (San Onofre Creek, Western Survey Area)

In this area, San Onofre Creek consists of sandy and rocky channels with bench areas similar to the western portion (Appendix A, Page 36; Sample Points 26 and 27; Photos 38 to 40). The major difference from the eastern portion of San Onofre Creek (Feature 15) is this area also supports a large adjacent wetland habitat consisting mostly of sycamore willow riparian forest to the south and northwest, and willow riparian forest to the northeast (Sample Point 29; Photo 42). Hydrology indicators included water marks, drift deposits and sediment deposits. One area surrounded by jurisdictional habitat occurs adjacent and east of the project access road (Sample Point 28; Photo 41). The project access road traverses the wetland area to the north. Structure 71 is located on an upland shelf near Feature 19, but the proposed work is not expected to impact the jurisdictional area or trigger permits.

Feature 20 (Ephemeral Channel)

Feature 20 occurs north of Basilone Road and drains portions of the residential neighborhood and slopes to the north (Appendix A, Page 37; Photos 43 and 44). This feature consists of a sandy bottom that terminates at a pile of rip-rap north of Basilone Road. From there, water sheet flows into a culvert under Basilone Road and down into an earthen tributary to San Onofre Creek. Although this feature would not be considered wetland by ACOE, it occurs within the Coastal Zone and meets CCC's parameter for a wetland.

Feature 21 (Riparian Forest, Wetland)

Feature 21 is a dense patch of riparian vegetation dominated by willow trees (Appendix A, Page 40; Sample Point 30; Photos 45 and 46). Hydrology indicators included water-stained leaves and sediment deposits. It likely once connected with the riparian vegetation adjacent to San Mateo Creek that occurs to the north. This vegetation is supported by water that collects in a lower area below the mesa to the south and the historic agricultural fields to the north. This feature may have historically been influenced by San Mateo Creek, or possibly even the tides prior to the development of Interstate 5 and the agricultural fields. This feature drains through a swale that flows directly into San Mateo Creek. Although structures 125 and 124 occur within the jurisdictional area, proposed activities are limited to pole top work and should not cause adverse impacts or trigger permits.

Feature 22 (San Mateo Creek, Wetland, Western Survey Area)

This section of San Mateo Creek occurs 0.6 mile northeast of its outlet to the Pacific Ocean (Appendix A, Page 42). With the exception of the bench area that separates the two main channels and the southern edge of the floodplain, this portion of San Mateo Creek is dominated by wetland (Sample Points 32 to 34; Photos 47 and 48). Both northwest and southeast of the main channels support sycamore willow riparian forest and willow riparian forest. The main channels and bench in between support mostly mule fat scrub. Hydrology indicators included drift deposits, water-stained leaves and sediment deposits. Stringing Site 15 extends under the jurisdictional canopy on the south side of the creek floodplain. In order to avoid impacts this stringing site location will be shifted outside of the jurisdictional area.

Feature 23 (Intermittent Channel)

Feature 23 is an intermittent channel that drains residential areas to the west of the survey area (Appendix A, Page 47; Photos 49 and 50). This feature supported patches of riparian overstory of southern willow scrub. The understory consisted of upland vegetation. Feature 23 drains into San Mateo Creek to the east.

Feature 24 (Ephemeral Channel)

Feature 24 is an ephemeral channel that drains the east-facing slopes and adjacent access roads east of Cristianitos Road (Appendix A, Page 49; Photo 51). Feature 24 drains under Cristianitos Road and into San Mateo Creek to the east.

Features 25 and 26 (Ponding Wetland)

Features 25 and 26 consist of wetland depressions in a larger area of non-native grassland and dirt access roads (Appendix A, Page 30; Photos 52 to 54). These features are separated by an earthen berm approximately 5-feet wide. These features are likely supported by runoff from surrounding dirt access roads and recent construction, and possibly an underground seep. Features 25 and 26 are dominated by plant species typically found in wetlands including curly dock (*Rumex crispus*), swamp pickle grass (*Crypsis schoenoides*), Italian rye grass (*Lolium perrene*), rabbitfoot grass (*Polypogon monospeliensis*) and prickly oxtongue (*Helminthotheca echiodes*), Primary indicators of hydrology observed included cracked soils and sediment deposits. This area also appeared saturated, and likely supports surface water for extended periods of time. There is no clear surface connection to the nearest ephemeral channel (Feature 16) that occurs 150 feet to the west. However, there may be a subsurface connection. Features 25 and 26 also occur with 1,100 feet of San Onofre Creek and would likely be considered jurisdictional following the recent Clean Water Act clarification guidelines.

A cable pole and proposed underground route are proposed near an earthen berm in the vicinity of Features 25 and 26. However, these poles and underground section have been designed to avoid impacts to these features, and additional protective measures will be implemented prior to construction in order to avoid impacts to these features.

Jurisdictional Resources

Within the survey area, a total of approximately 141,572 square feet (3.250 acres) of ACOE Waters of the U.S., RWQCB Waters of State, and CDFW Streambed, 548,384 square feet (12.589 acres) of ACOE Wetland, RWQCB Wetland, and CDFW Streambed, 72,881 square feet (1.673 acres) of RWQCB Waters of State, and CDFW Streambed, 14,622 square feet (0.336 acre) of ACOE Wetland and RWQCB Wetland Waters of the State, 258,372 square feet (5.931 acres) of CDFW Riparian, and 58,420 square feet (1.341 acres) of CCC Wetland occur.

4.0 CONCLUSION

All wetlands and riparian areas identified continue outside of the survey area and are either part of the San Mateo Creek or San Onofre Creek systems that flow directly into the Pacific Ocean. All waters, streambed, wetland, and riparian features delineated are jurisdictional and will require permits/agreements from ACOE, RWQCB, and CDFW if impacted. In addition to ACOE, RWQCB, and CDFW, all features identified within the Coastal Zone are also jurisdictional to the CCC, and if impacted may require a coastal development permit.

There are other project components that require travel through, or are adjacent to, jurisdictional areas. These features may require an aquatic monitor to ensure avoidance. Project structures that may require special precautions include 22 (adjacent to Feature 8, Appendix A, Page 8), 71 (adjacent to Feature 19, Appendix A, Page 36), and 124 and 125 (within Feature 21, Appendix A, Page 40). Several project access roads within the study area traverse jurisdictional areas and special precautions should be considered to avoid wetter periods.

5.0 REFERENCES

Baldwin B.G., Goldman D.H., Keil D.J., Patterson R., Rosatti T.J., Wilken D.H., editors

2012 The Jepson Manual: Vascular Plants of California. 2nd Edition. University of California Press, Berkeley and Los Angeles. 1568p.

Lichvar, R. W.

2012 Arid West 2012 Final Regional Wetland Plant List: The National Wetland Plant List. ERDC/CRREL TR-12-11. Hanover, NH: U.S. Army Corps of Engineers, Cold Regions Research and Engineering Laboratory. (https://acwc.sdp.sirsi.net/client/search/asses:asset?t:ac=$N/1012381).

Environmental Laboratory

1987 "U.S. Army Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

United States Army Corps of Engineers

2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). ERDC/EL TR-08-28. Vicksburg, MS.

U.S. Department of Agriculture, Natural Resources Conservation Service, Army Corps of Engineers.

2006 Field Indicators of Hydric Soils in the United States, A Guide for Identifying and Delineating Hydric Soils. Version 6.0.

United States Department of Agriculture – Natural Resources Conservation Service

1973 Soil Survey, San Diego and Orange County Area, California. Soil Conservation Service and Forest Service. Roy H. Bowman, ed. San Diego.

United States Department of Agriculture – Natural Resources Conservation Service
2015 Soil Survey Geographic (SSURGO) Database for San Diego and Orange County, California. Available at <http://soildatamart.nrcs.usda.gov> (Accessed May 2015).

United States Environmental Protection Agency and United States Army Corps of Engineers
2007 Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in Rapanos v. United States and Carabell v. United States. 5 June.

United States Fish and Wildlife Service
2012 Wetlands Mapper. Available at <http://www.fws.gov/wetlands/Data/Mapper.html> (Accessed May 28 and 29, 2015).

United States Geological Survey
2012 The National Map Viewer. Available online at <http://nationalmap.gov/viewers.html> (Accessed May 28 and 29, 2015).

Appendix A – Jurisdictional Delineation Mapbook

This page intentionally left blank.

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

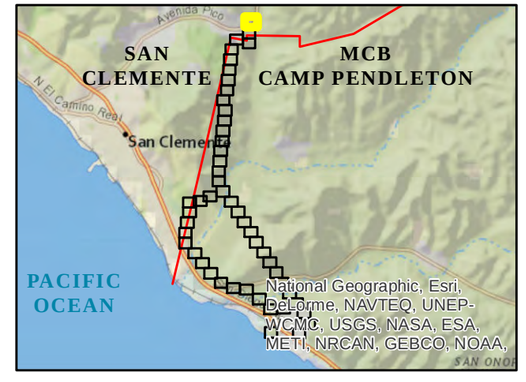
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

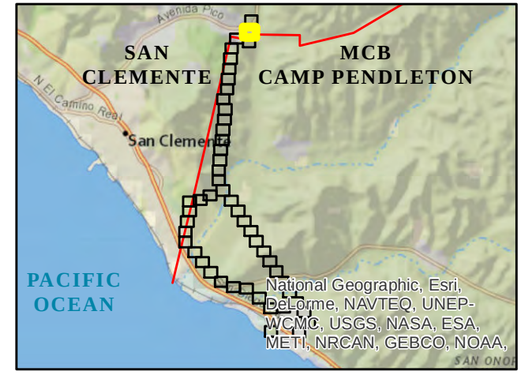
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

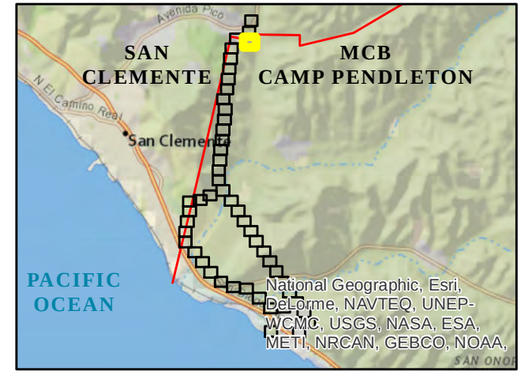
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

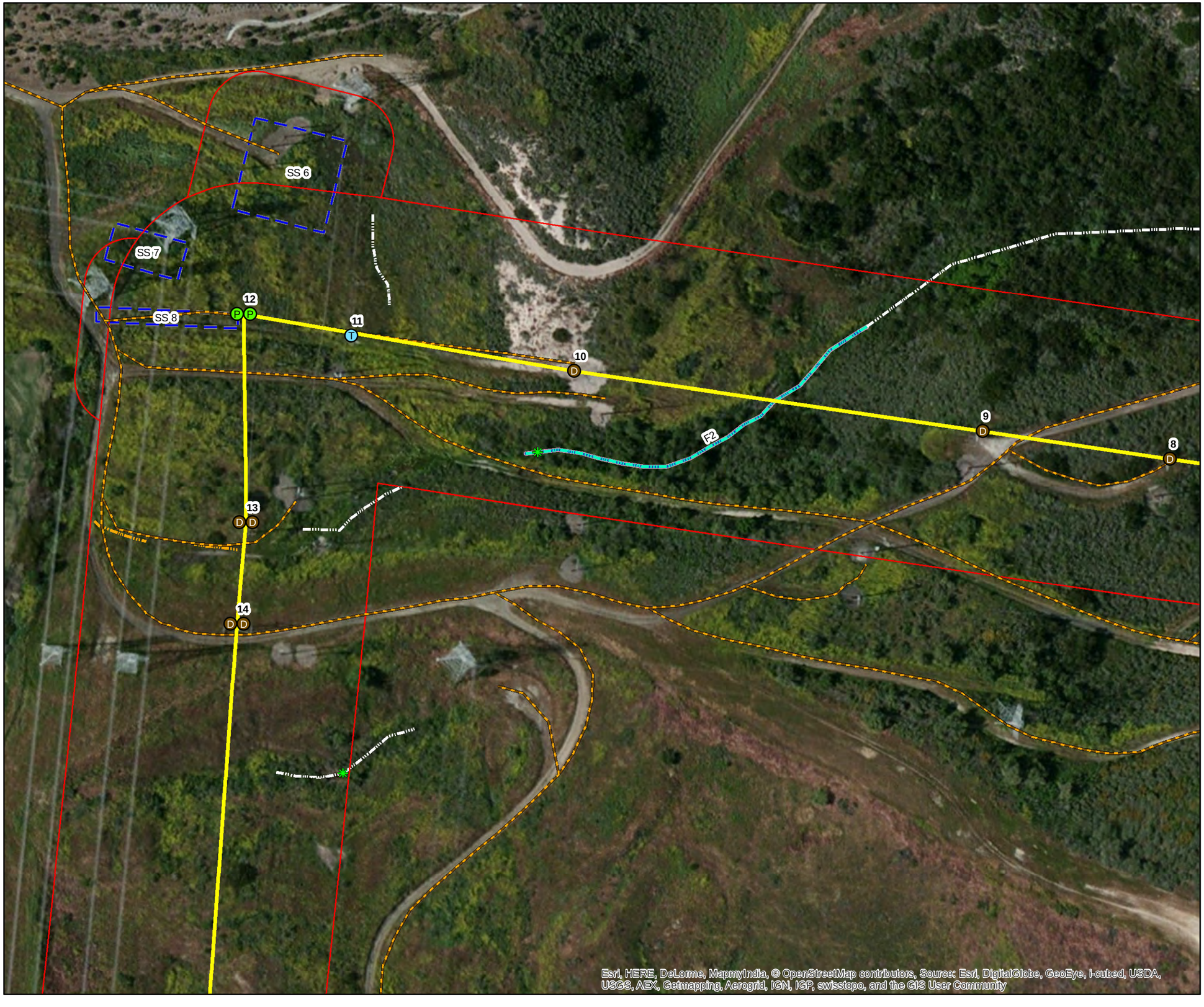
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

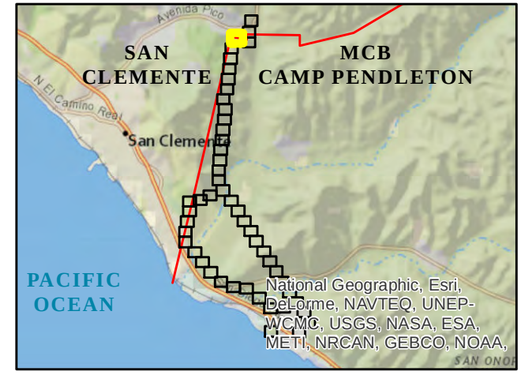
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

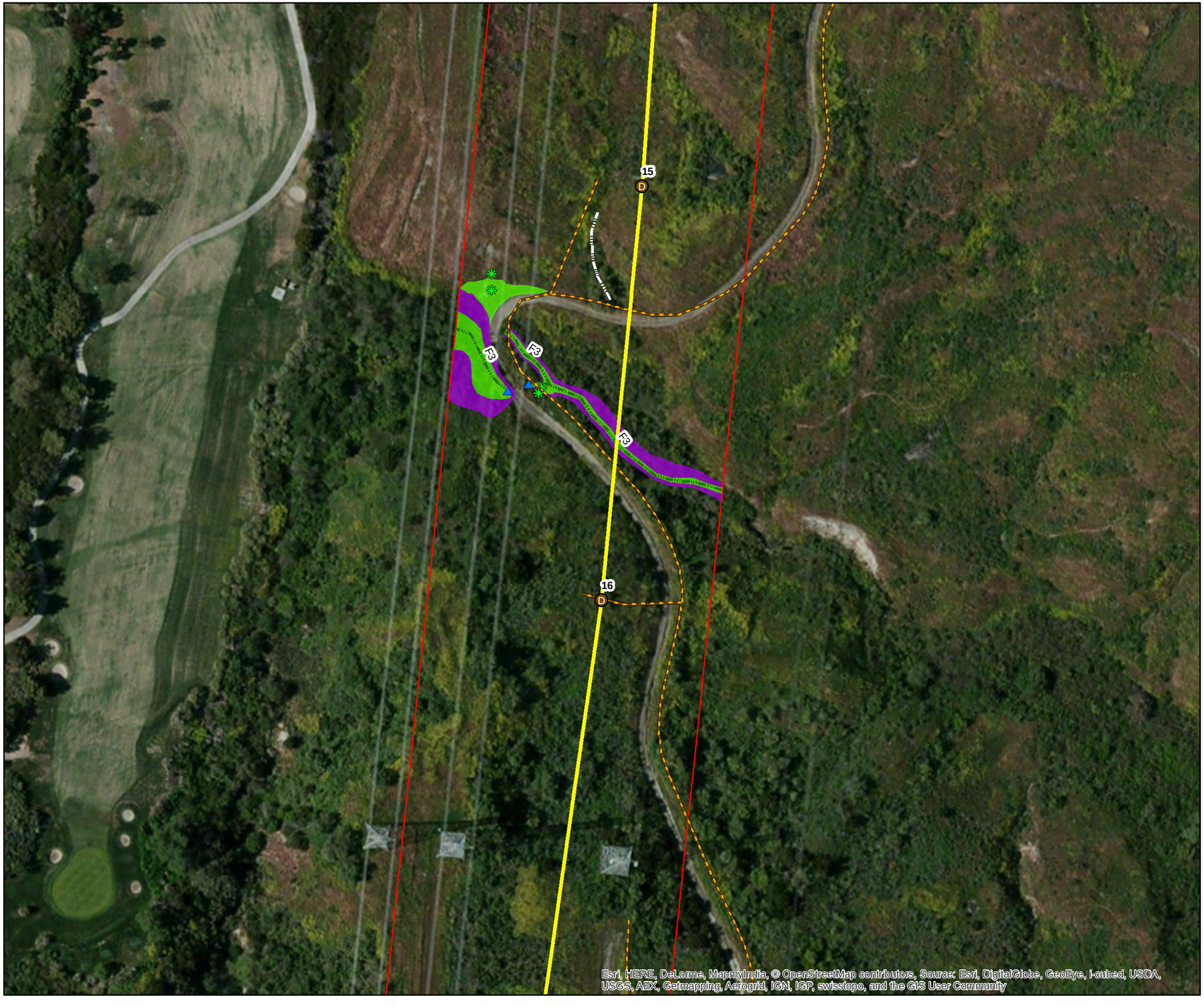
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

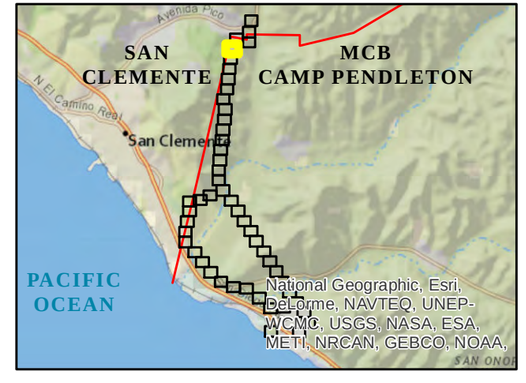
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

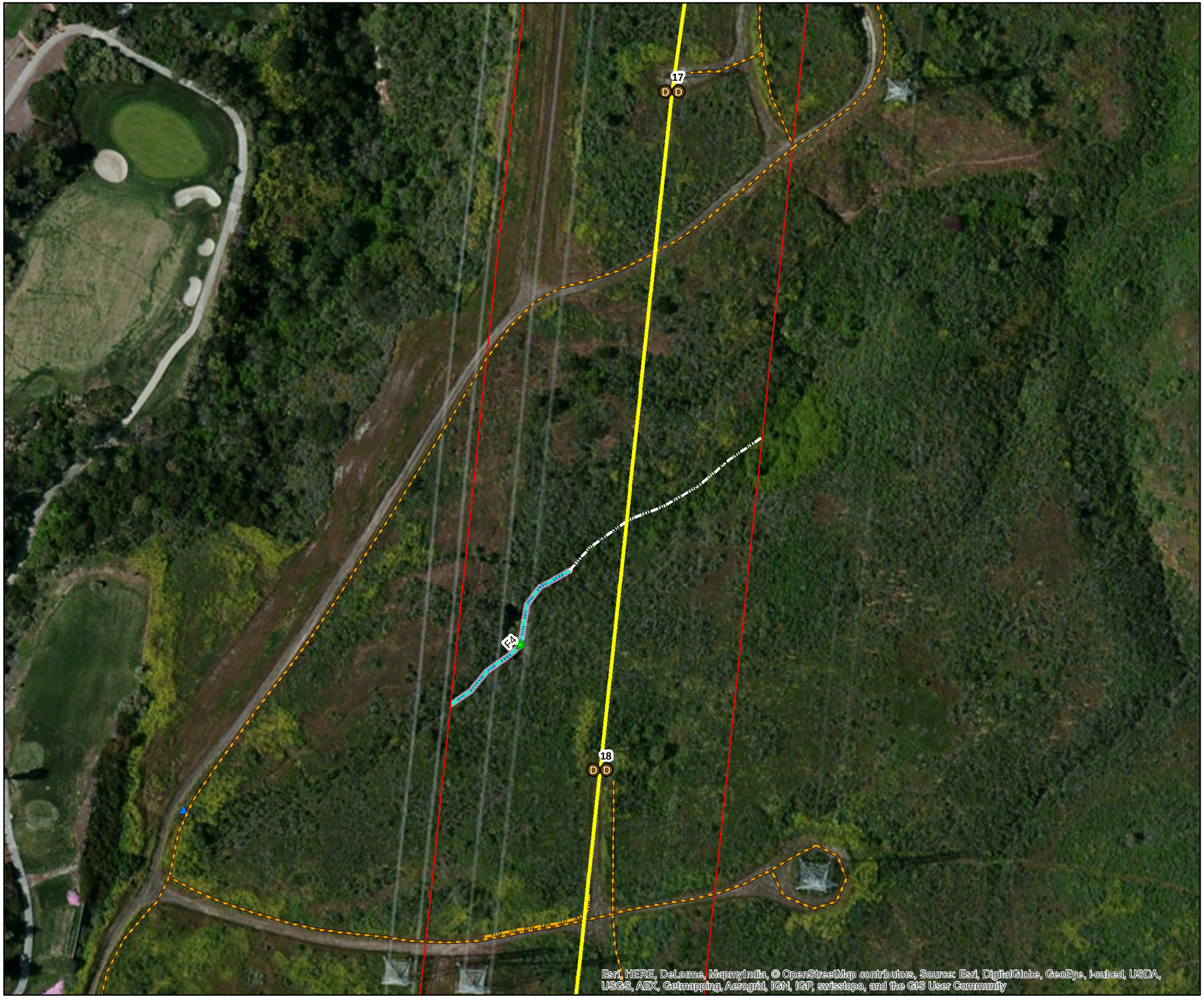
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

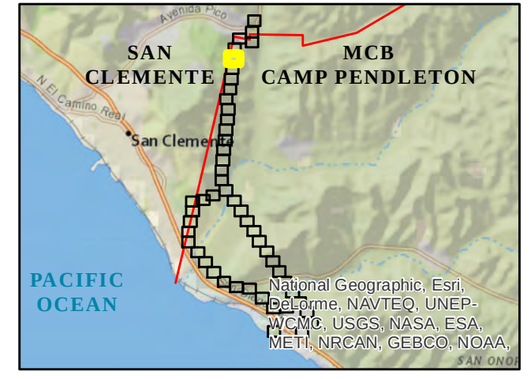
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

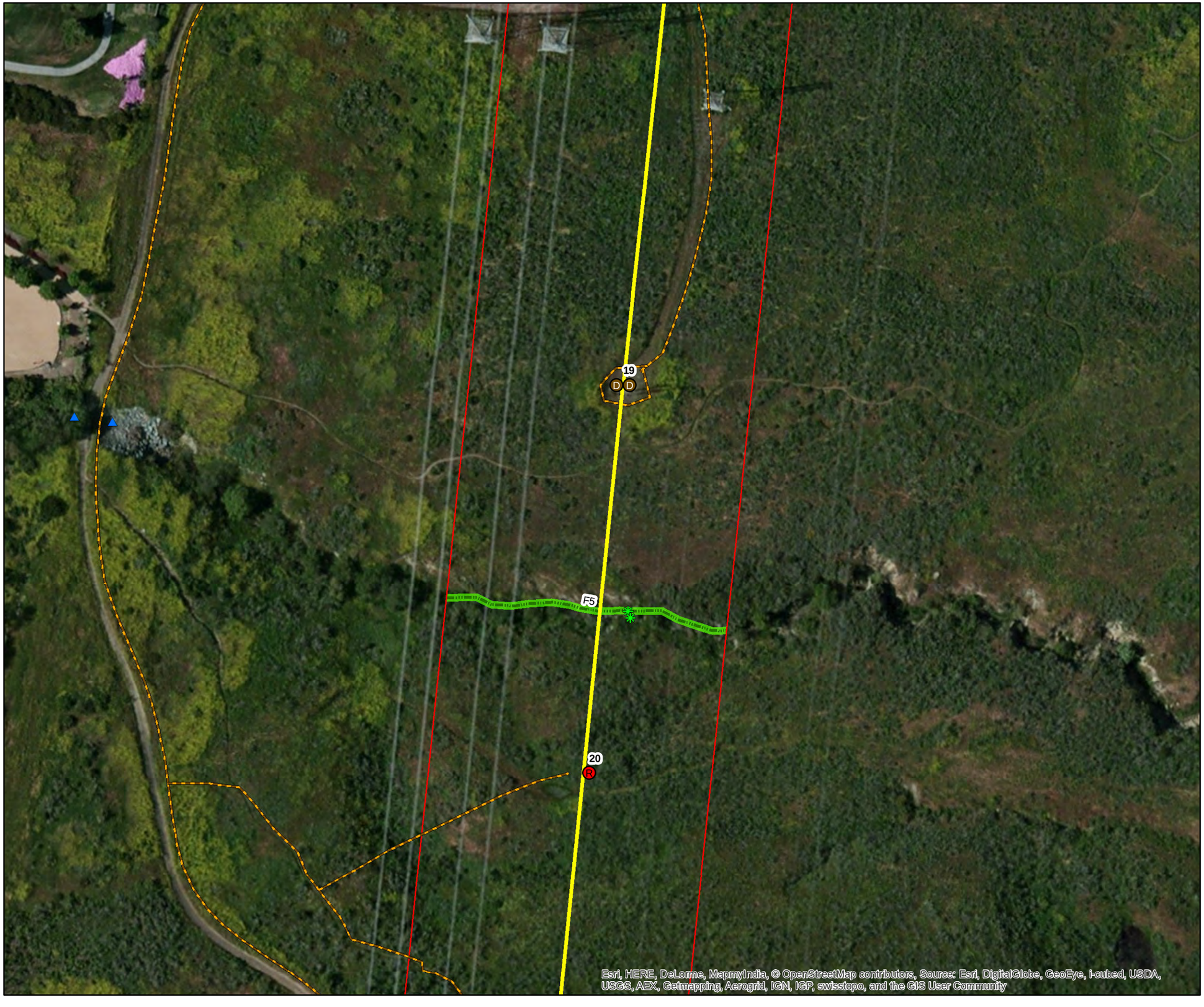
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

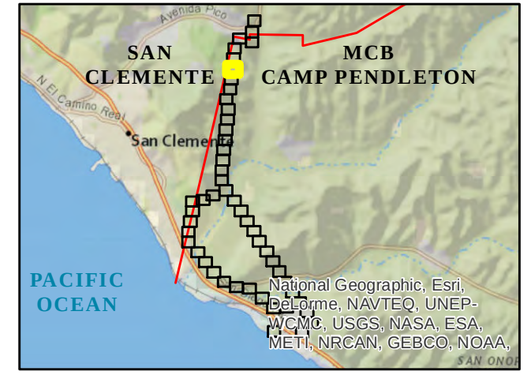
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

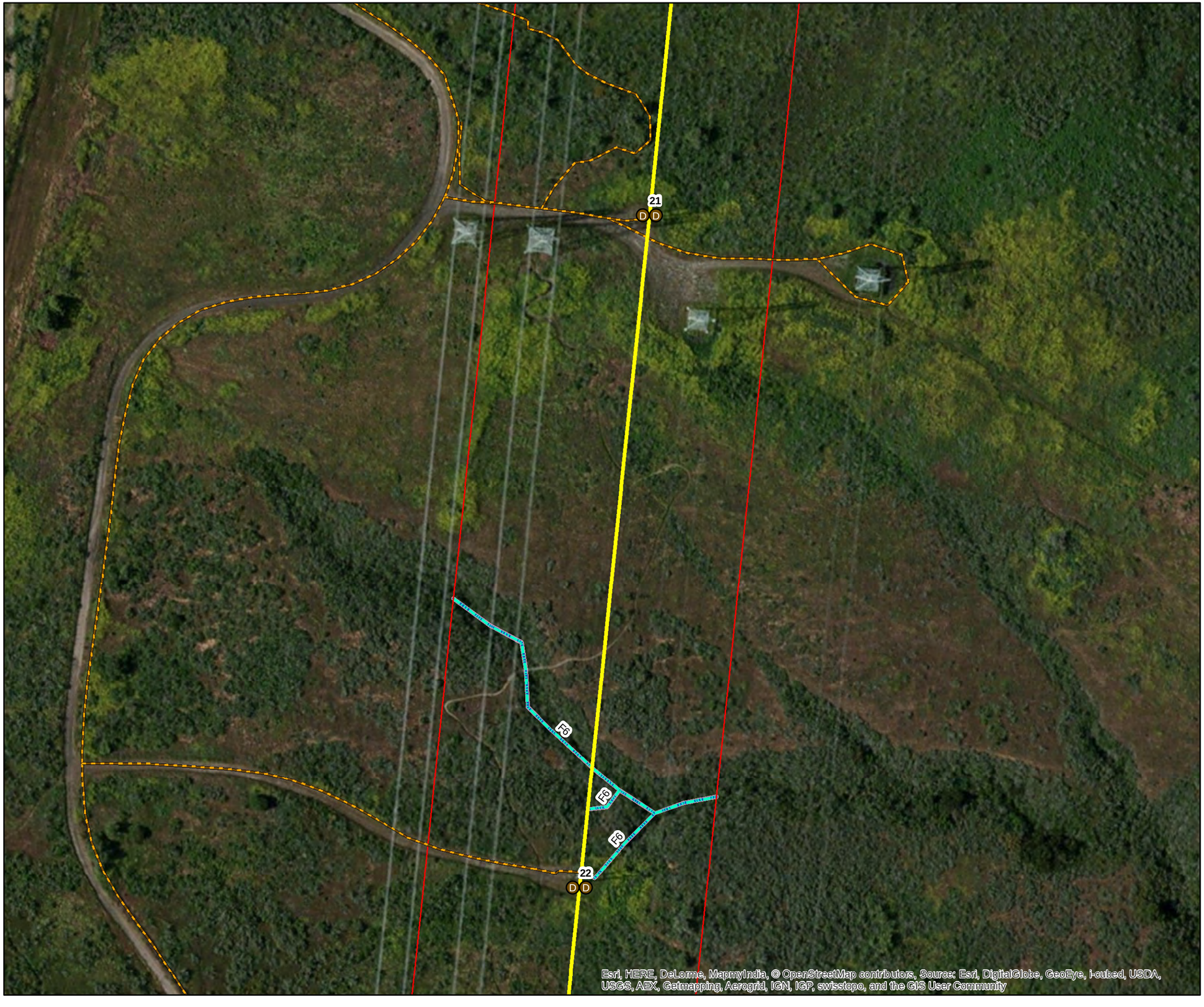
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

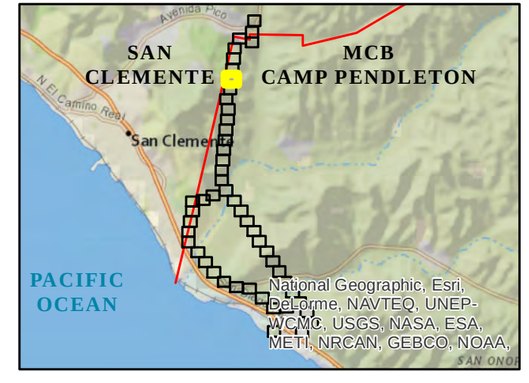
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

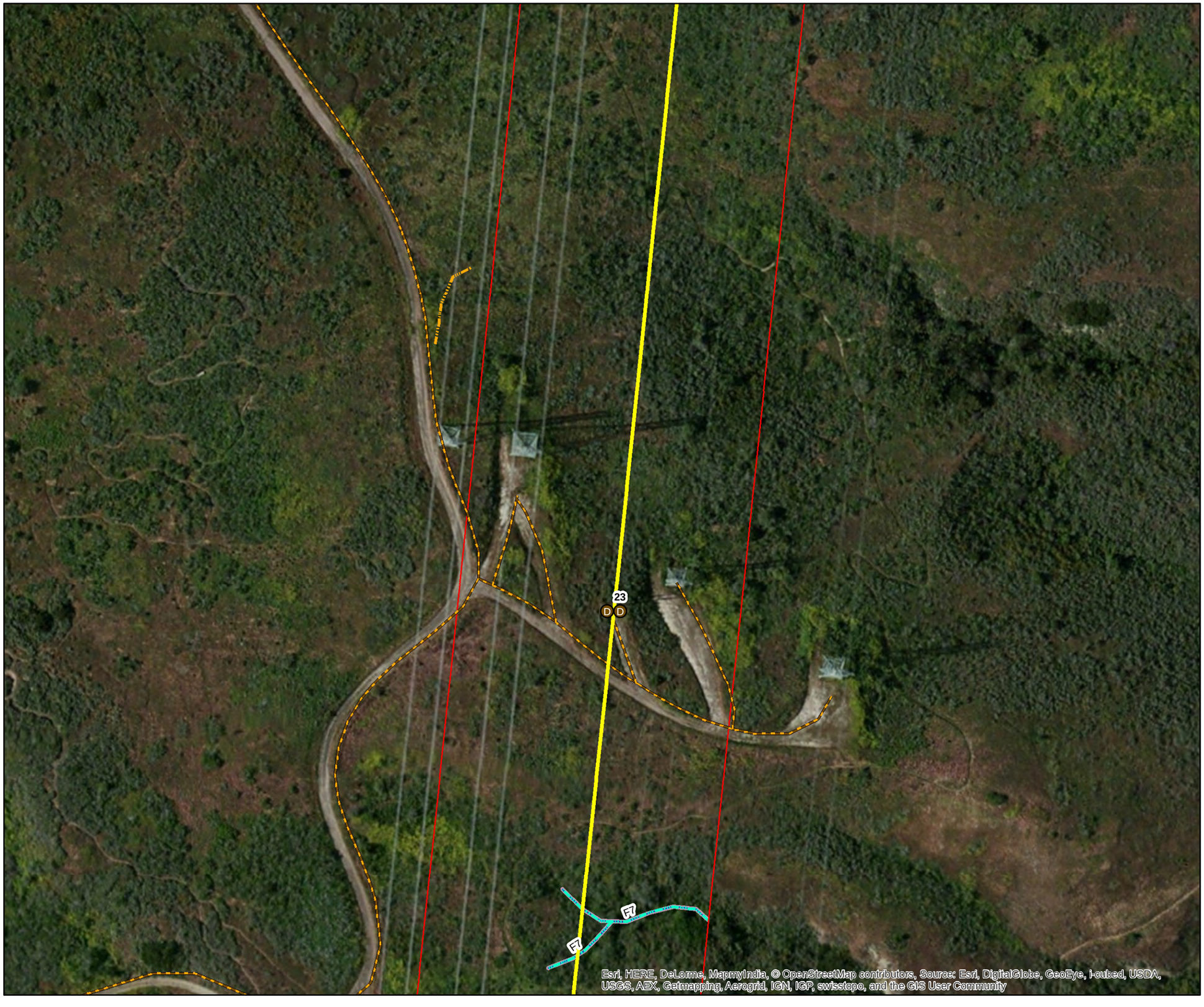
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

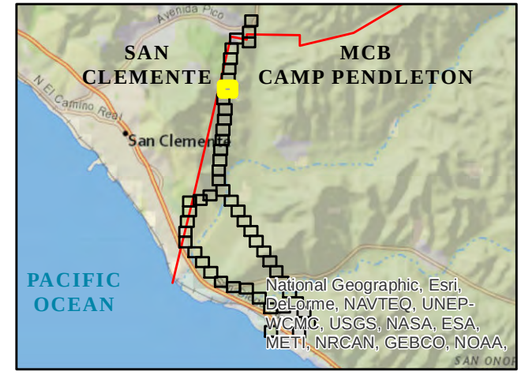
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

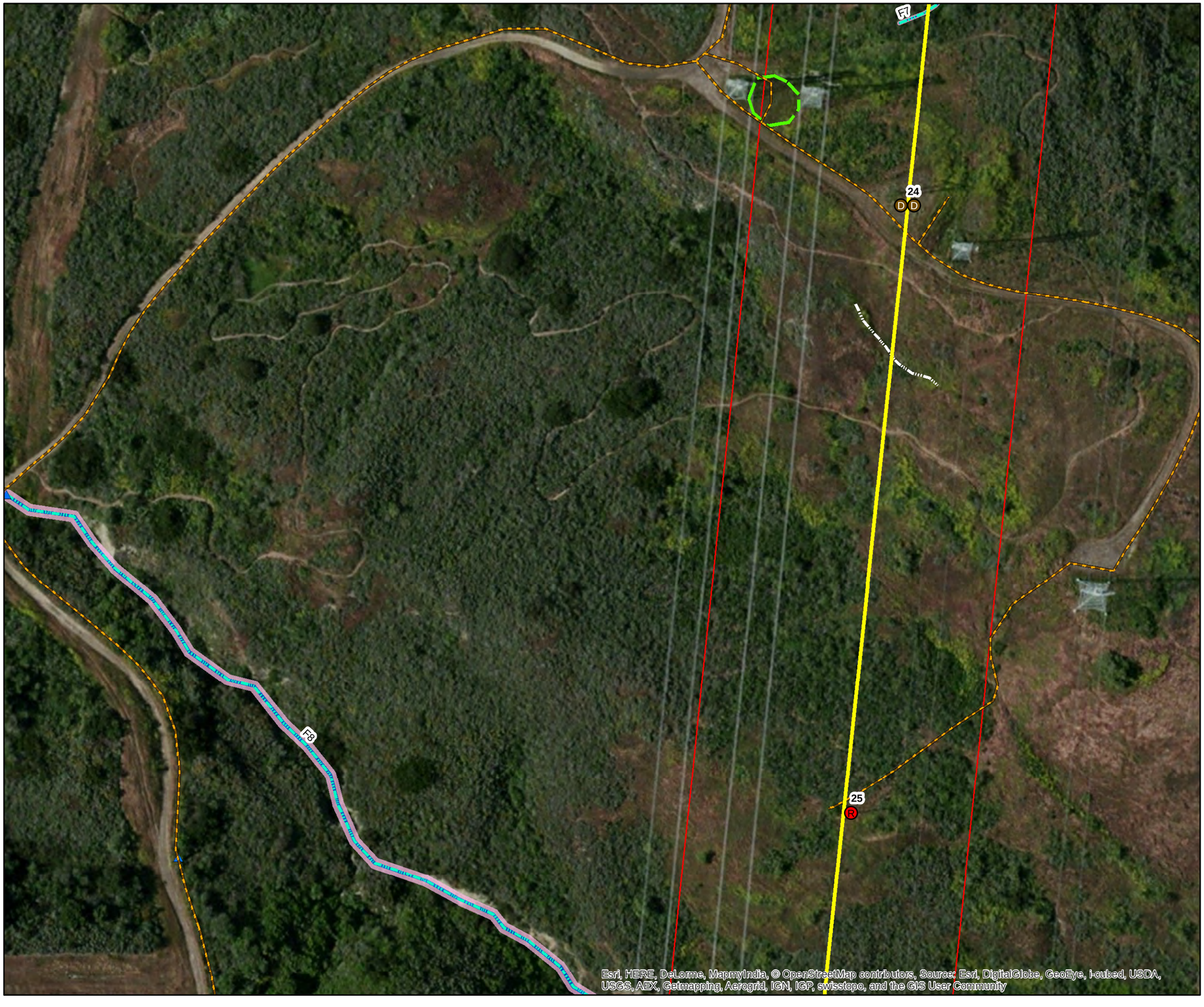
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

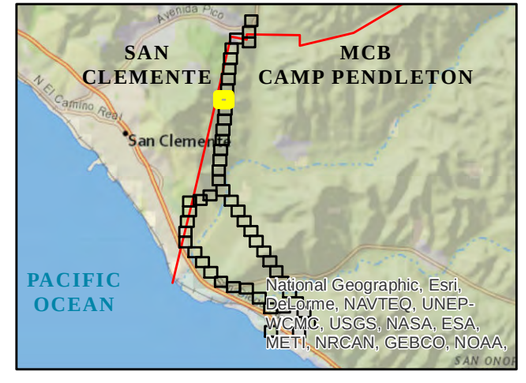
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

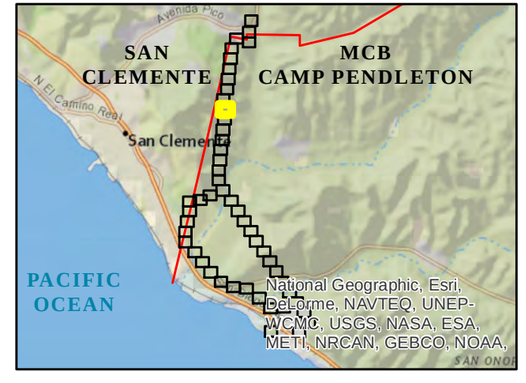
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

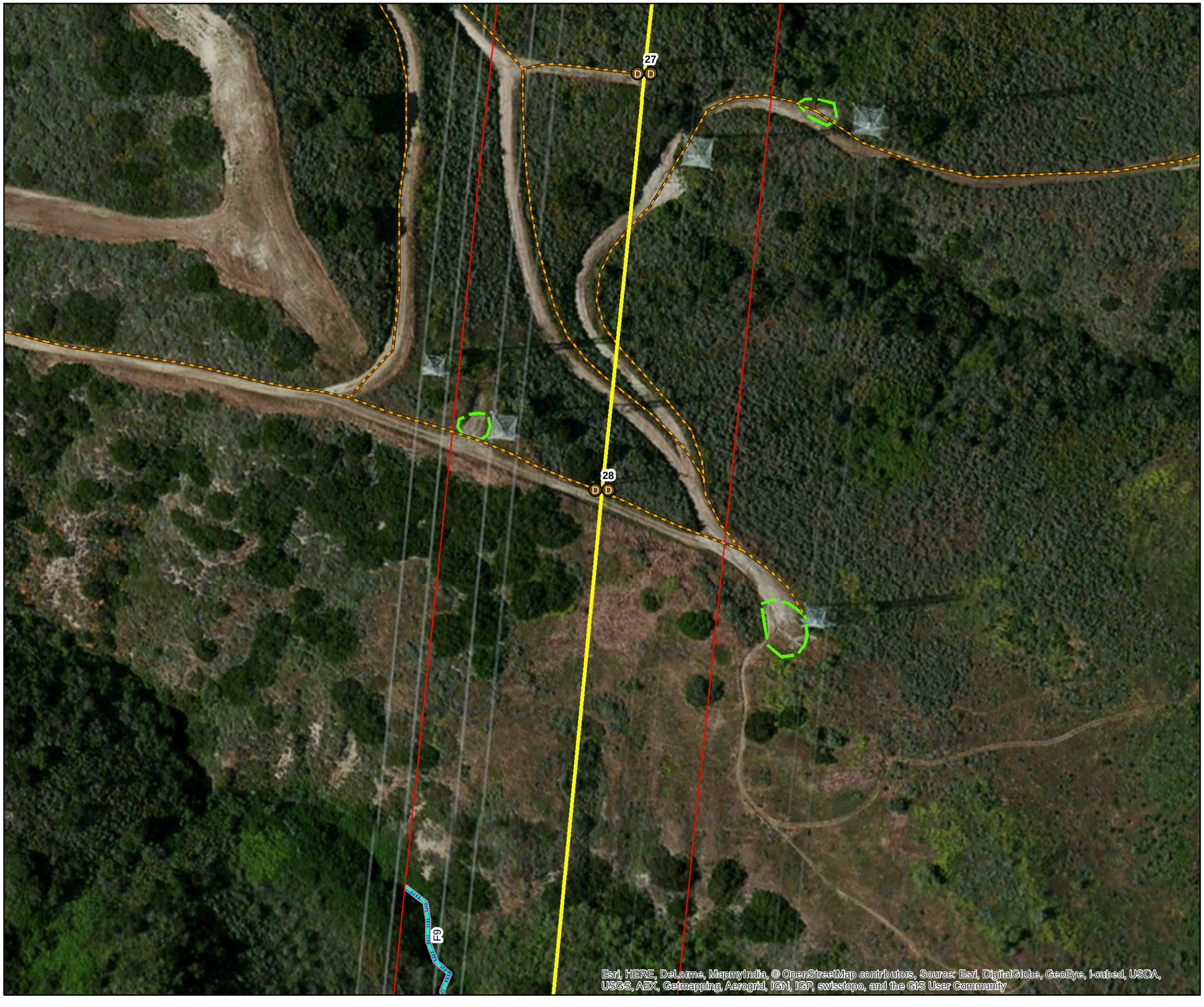
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

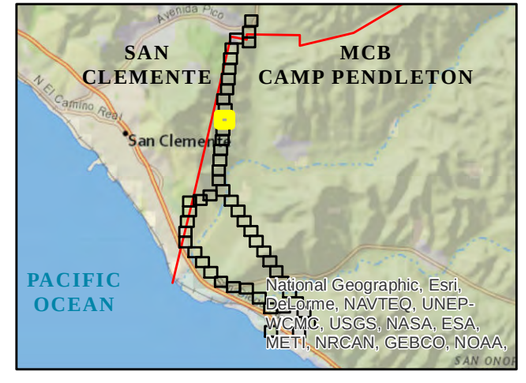
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

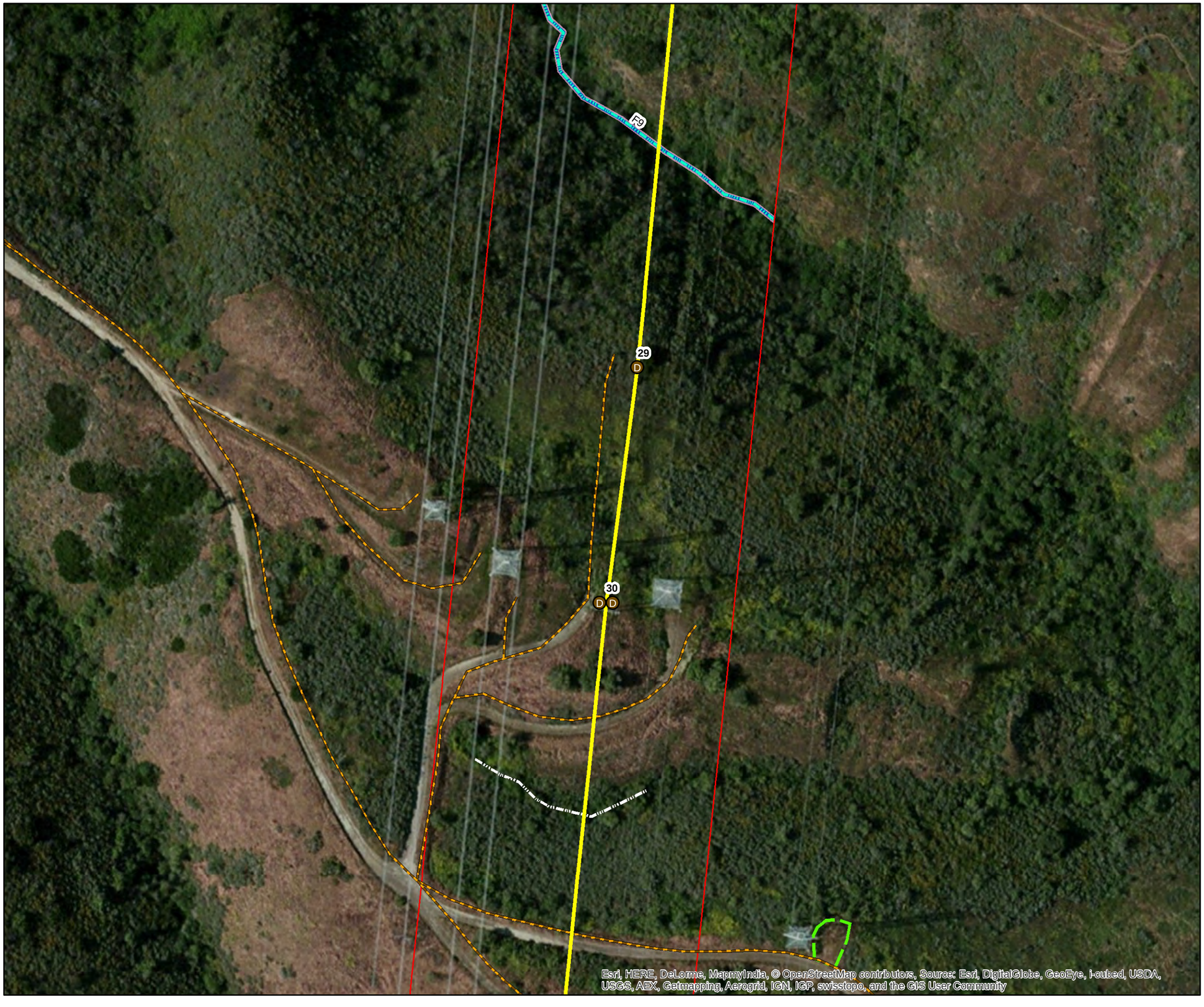
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

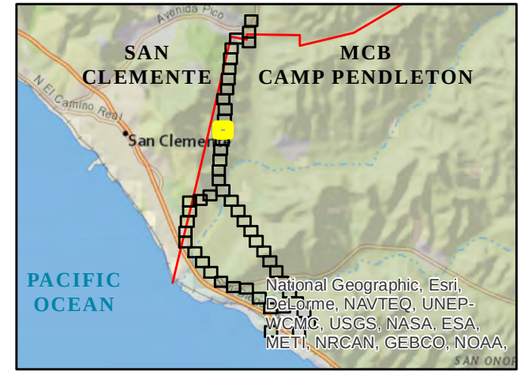
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

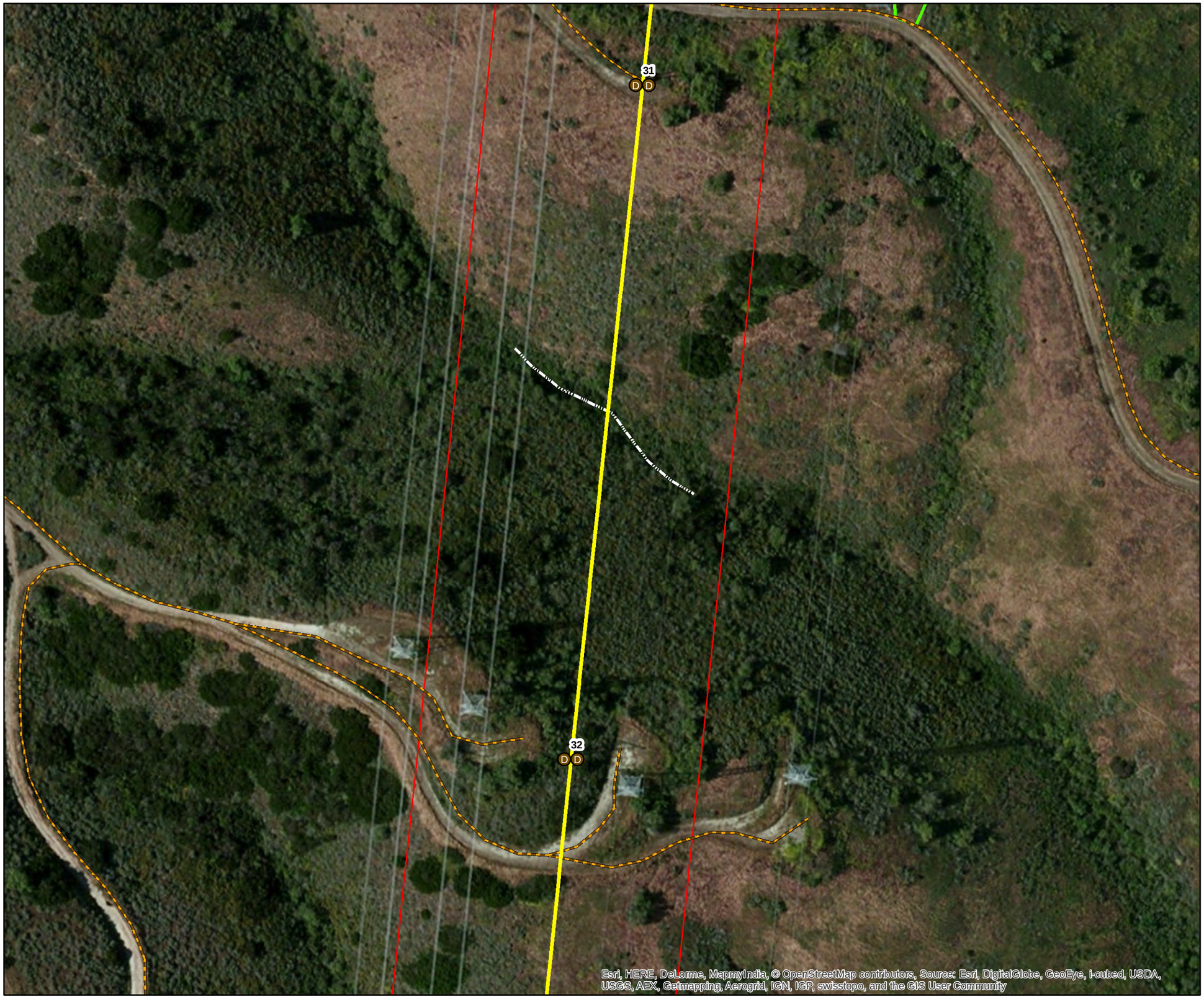
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

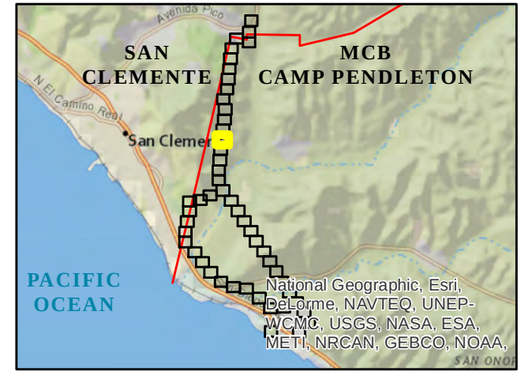
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

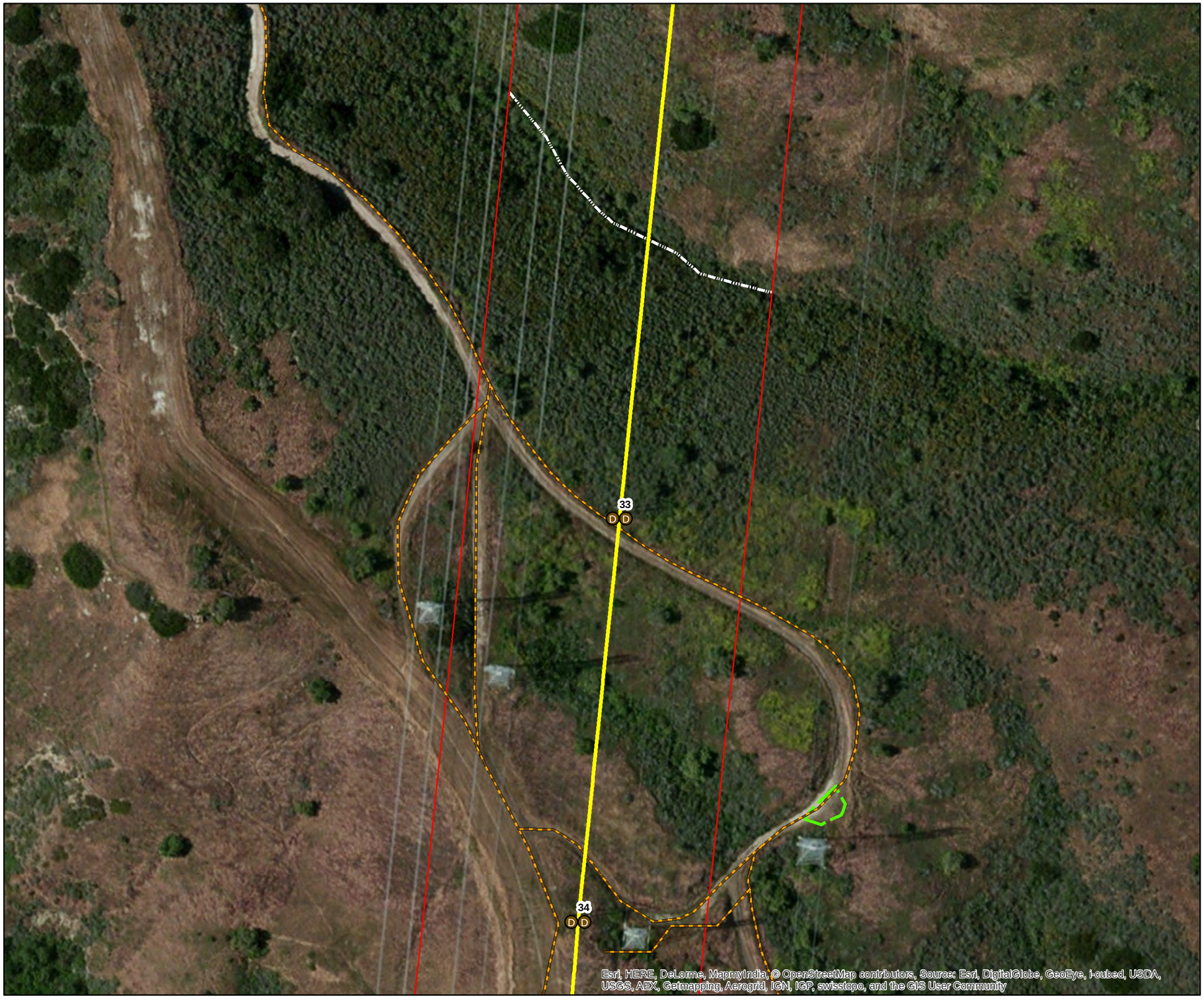
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

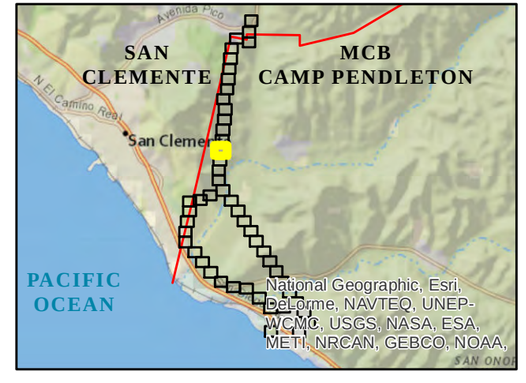
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

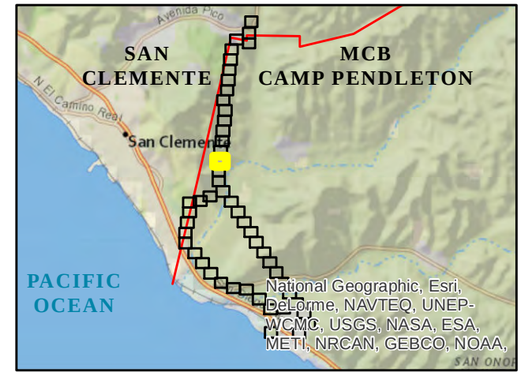
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

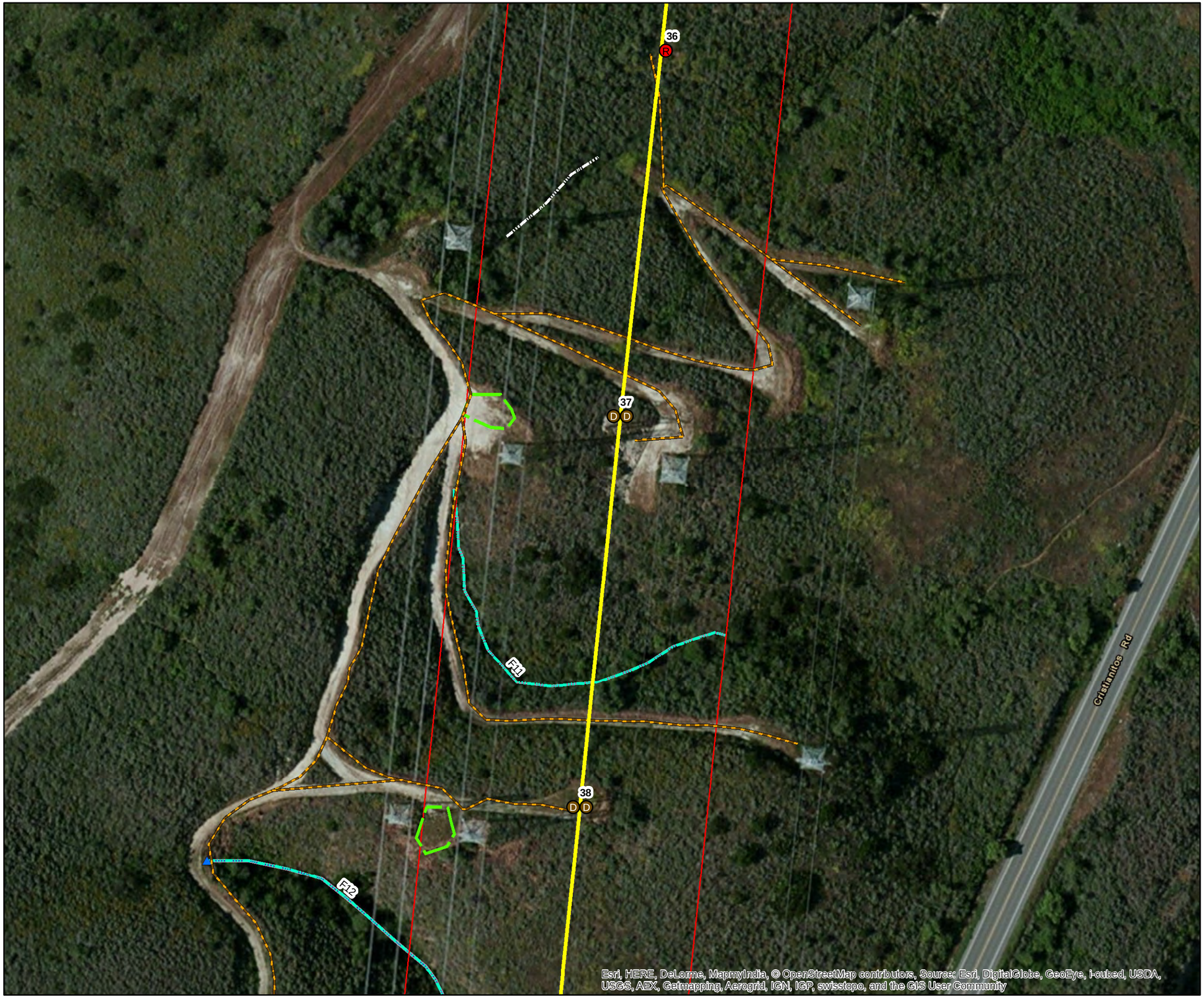
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

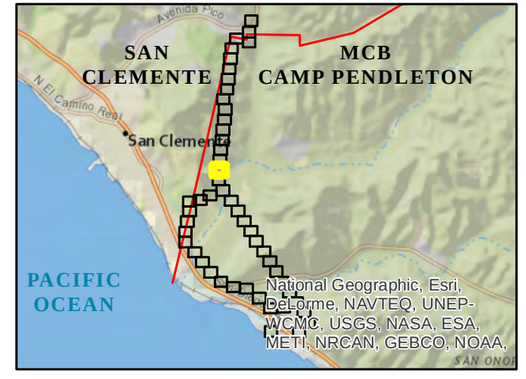
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

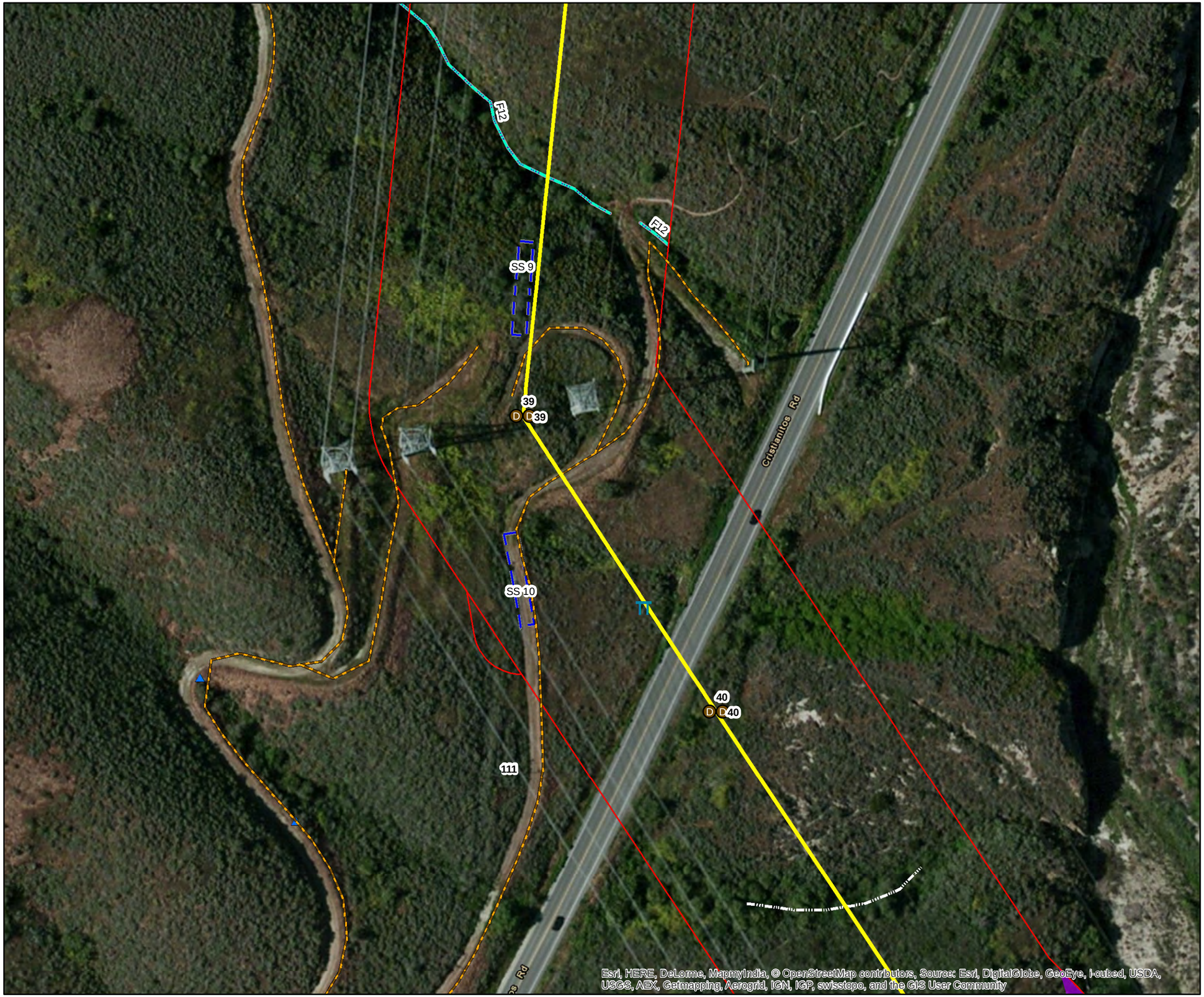
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland

Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

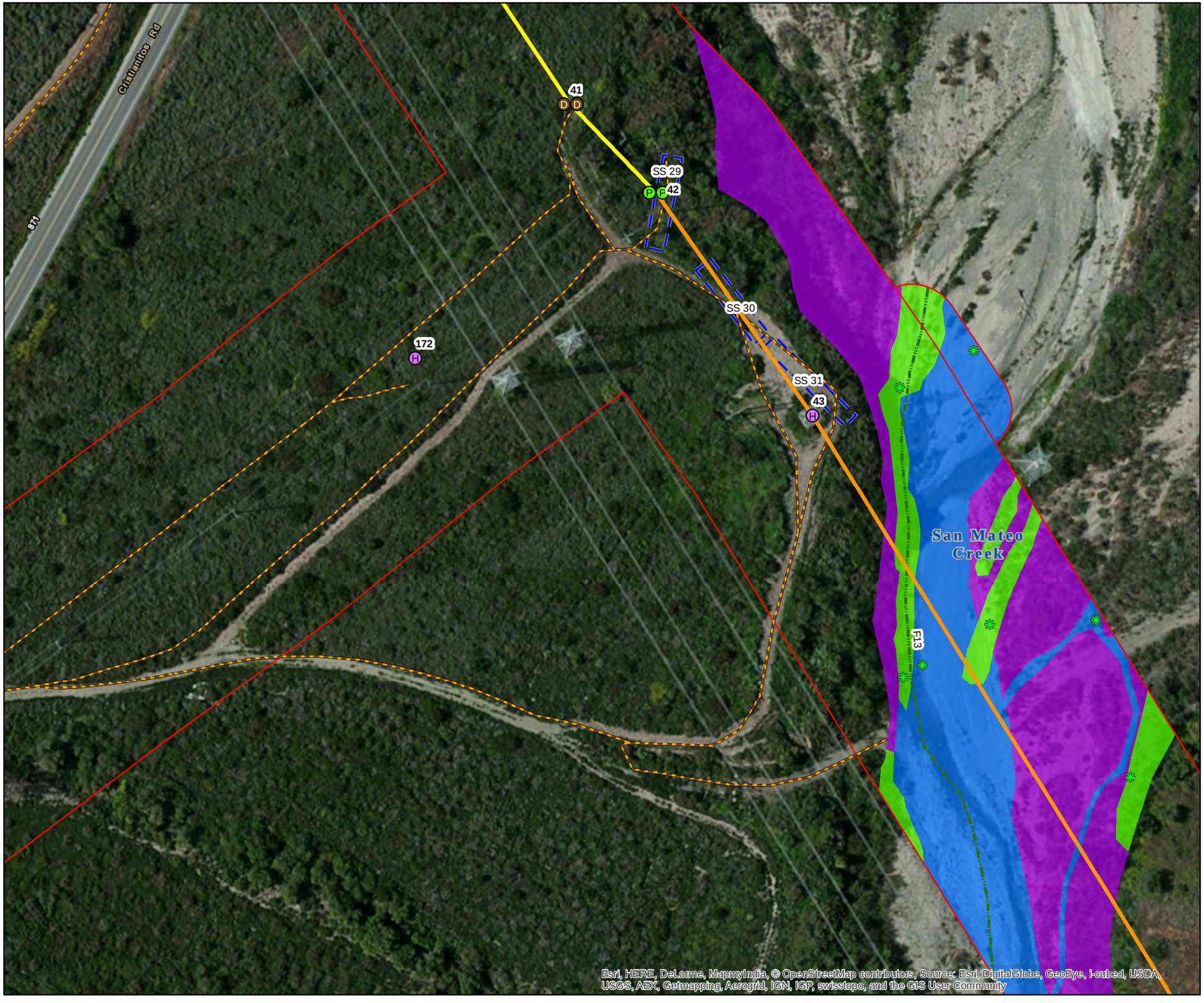
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

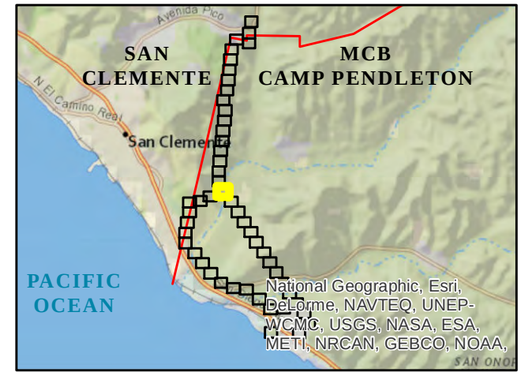
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

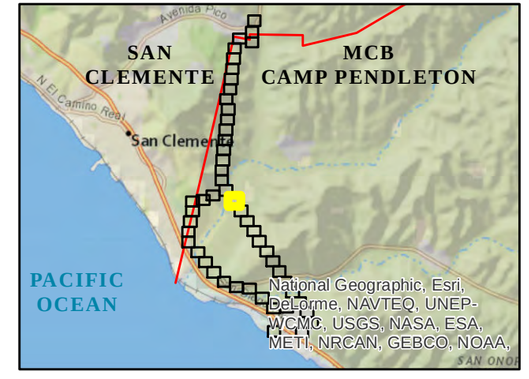
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

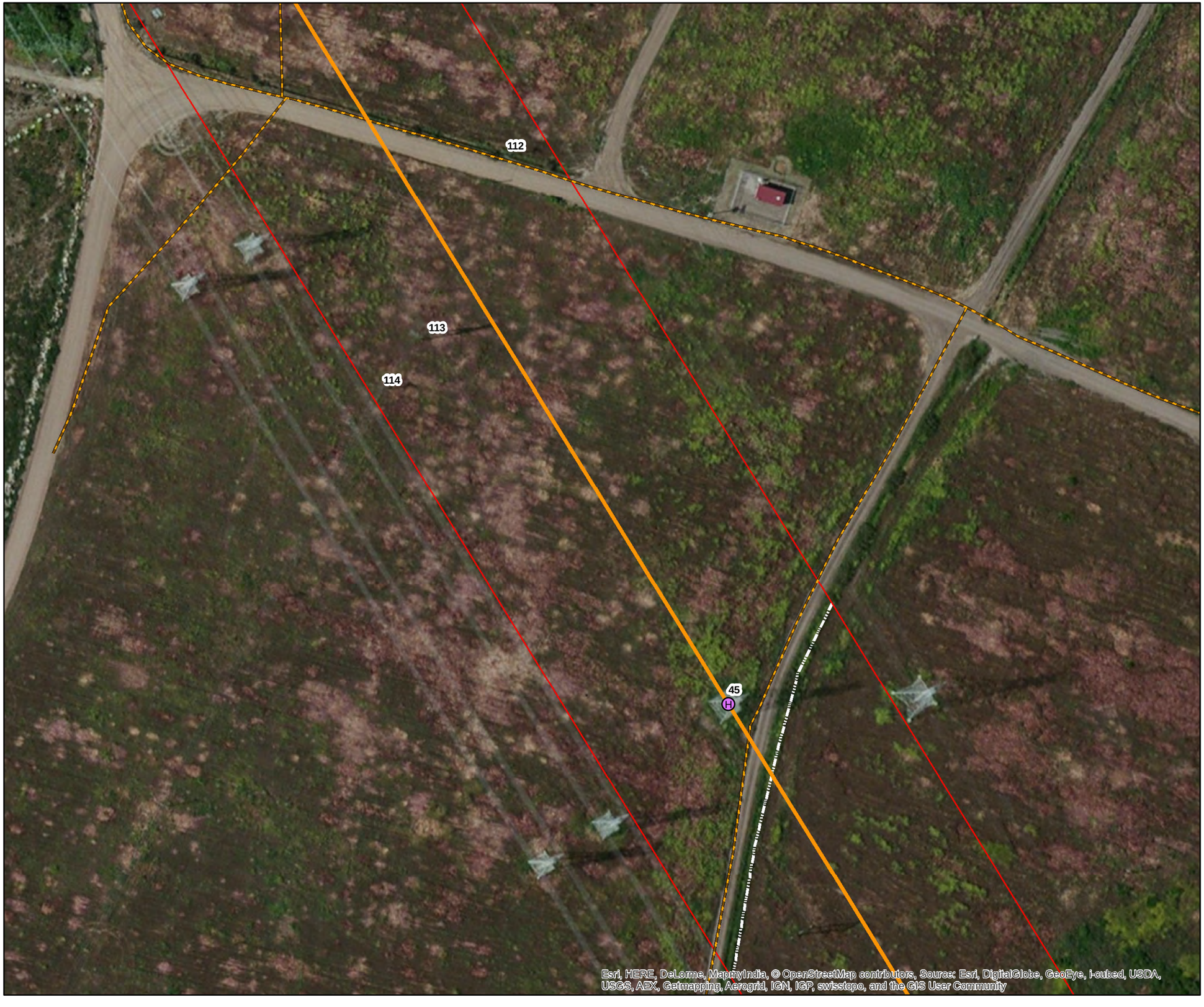
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

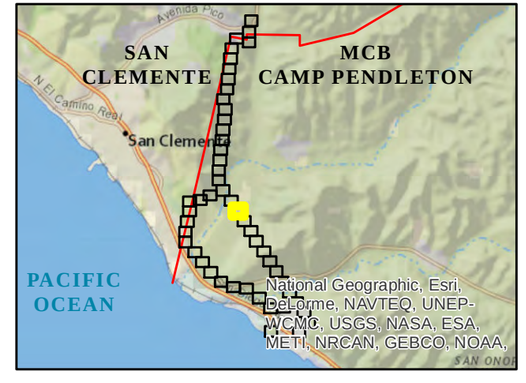
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

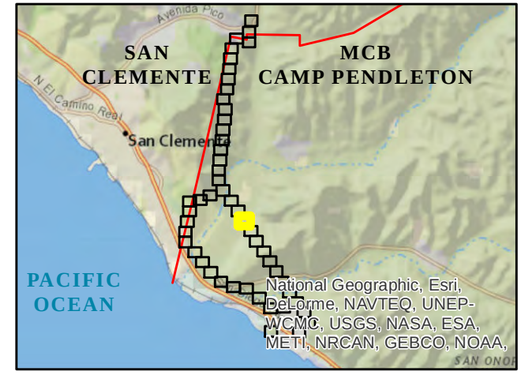
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

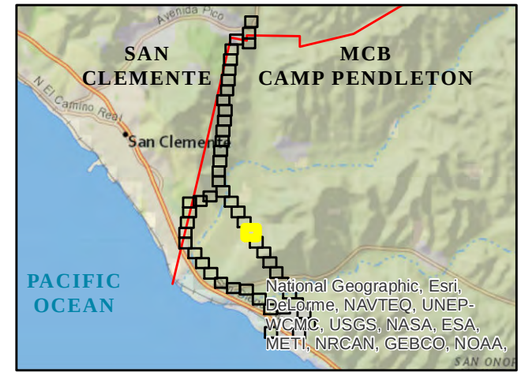
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

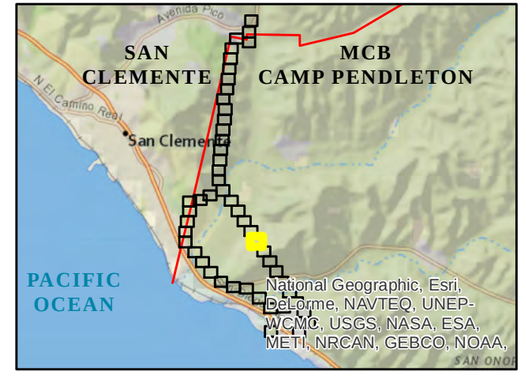
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

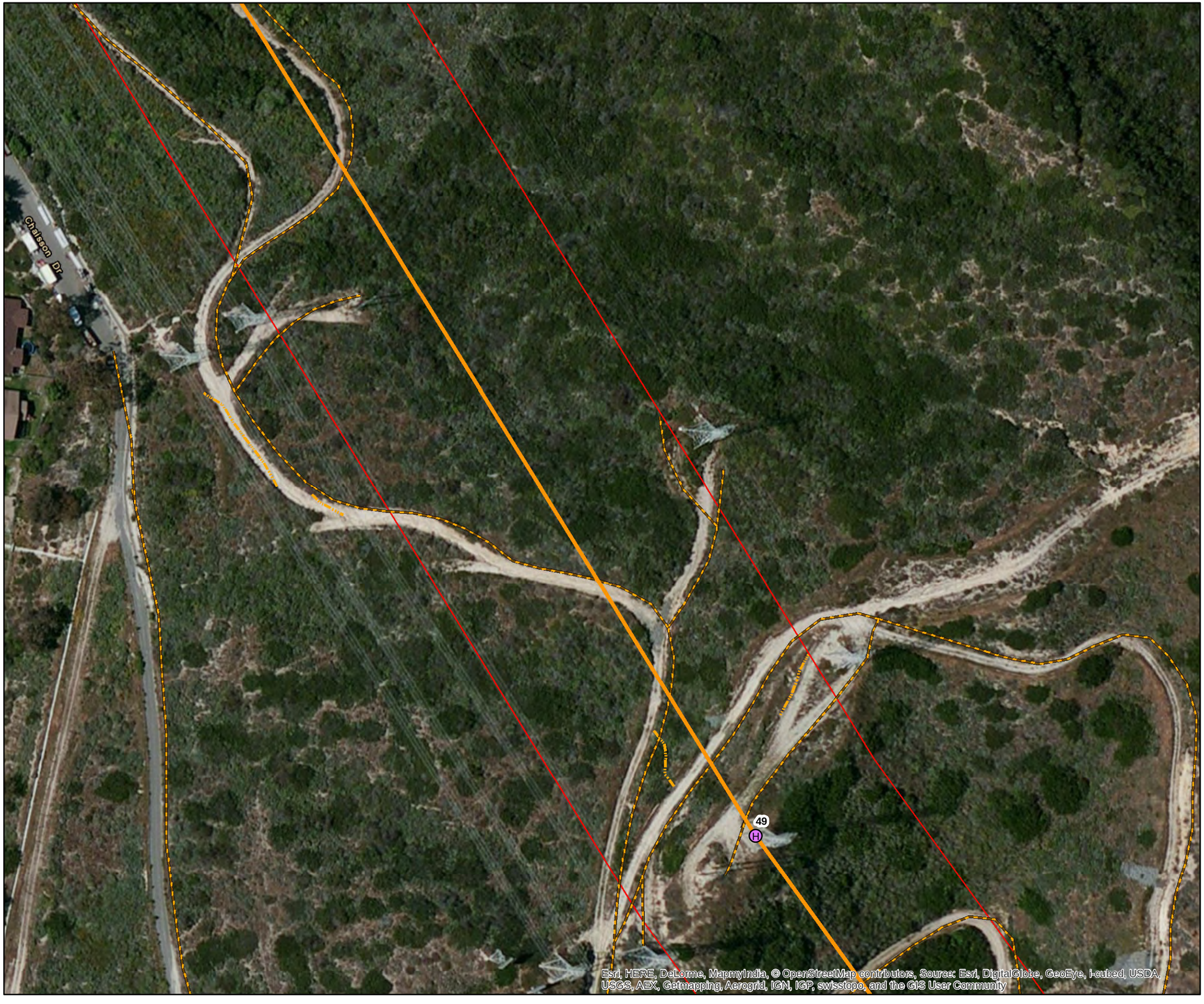
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

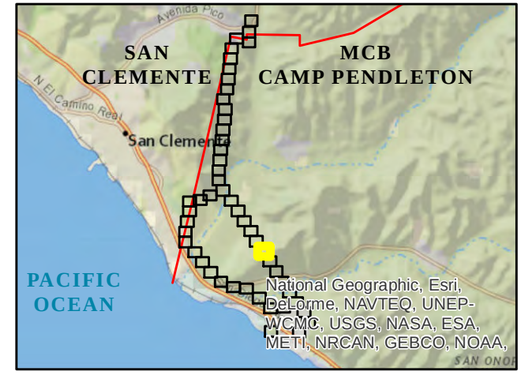
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

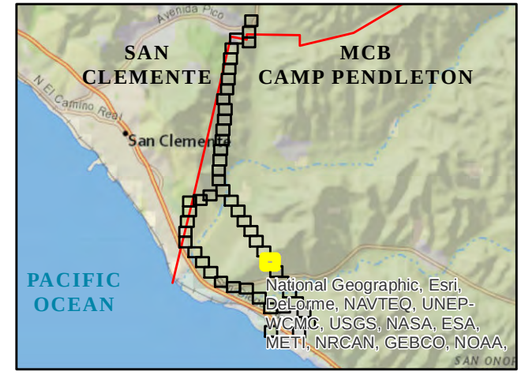
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

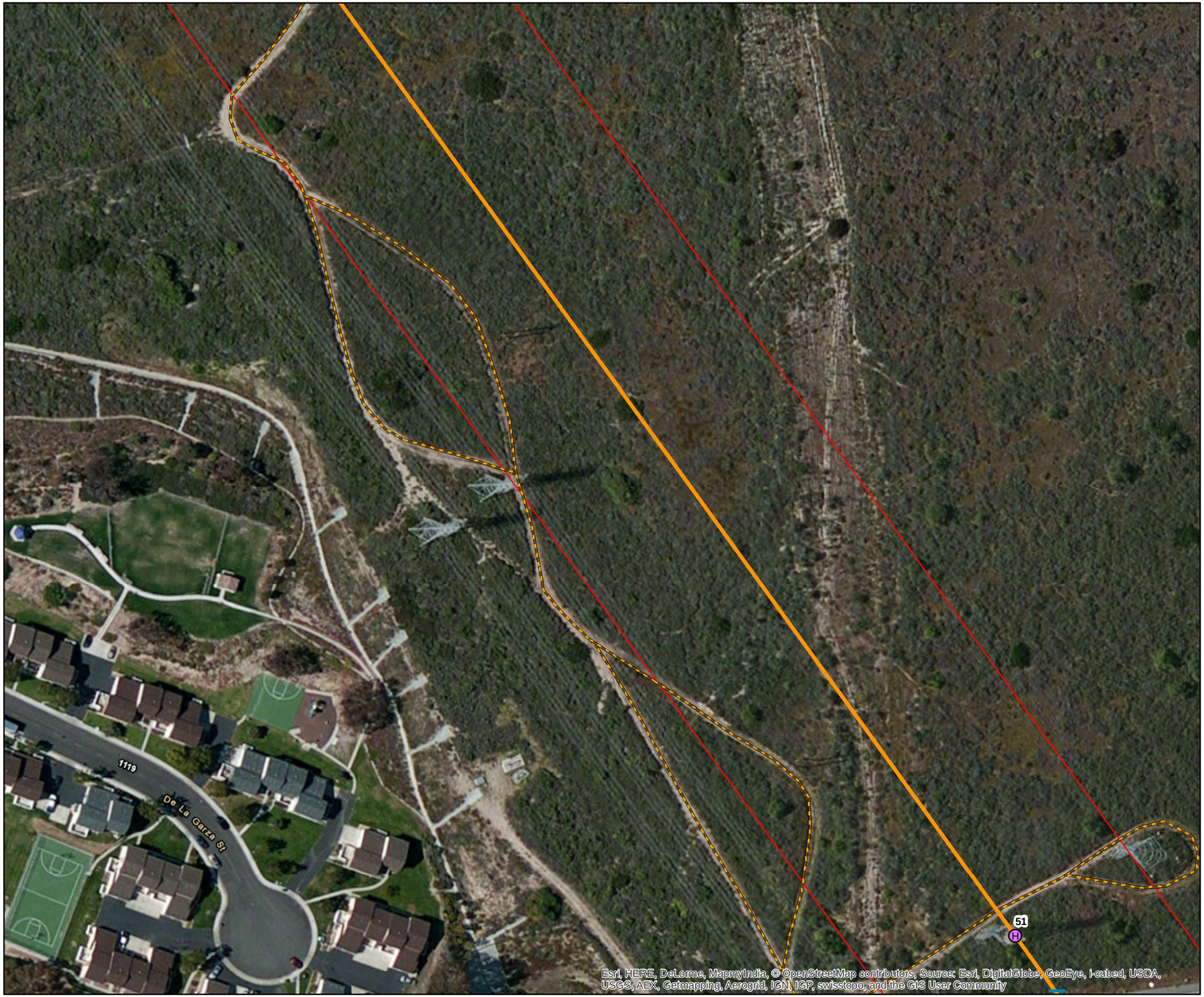
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

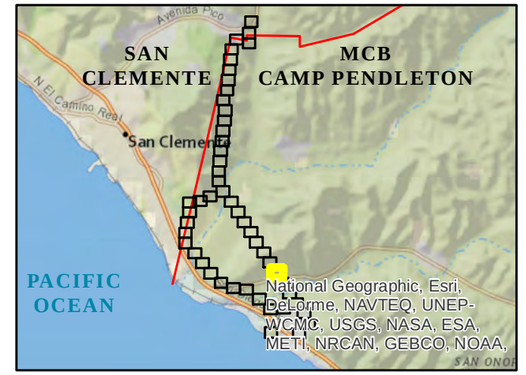
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

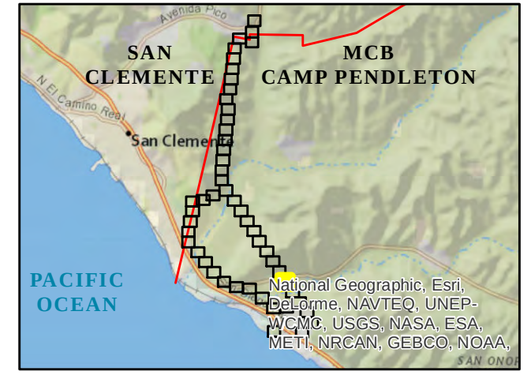
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

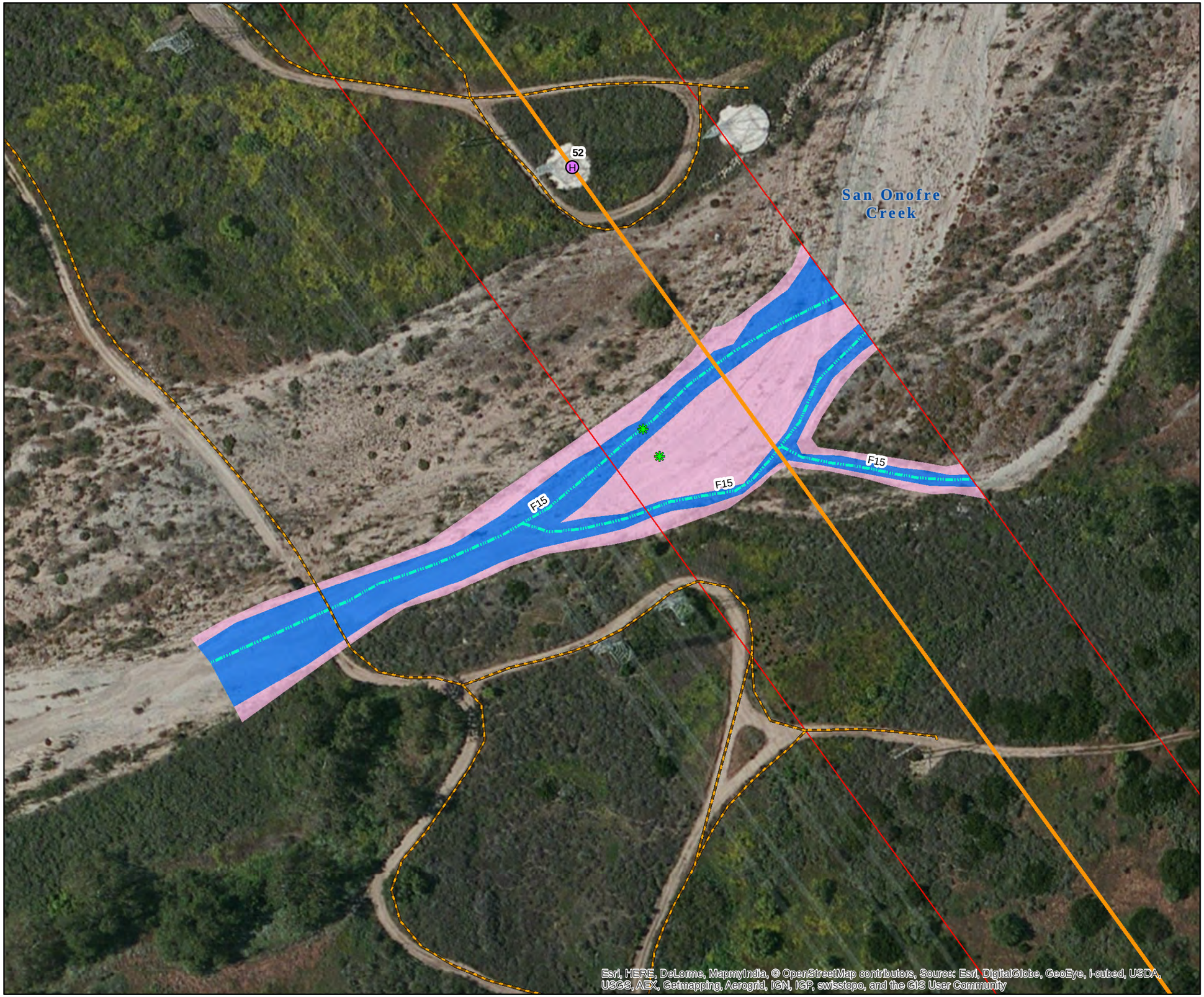
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

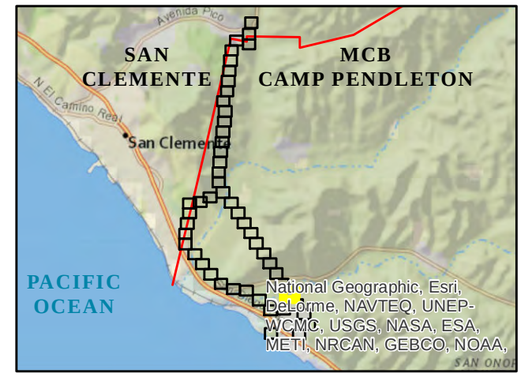
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

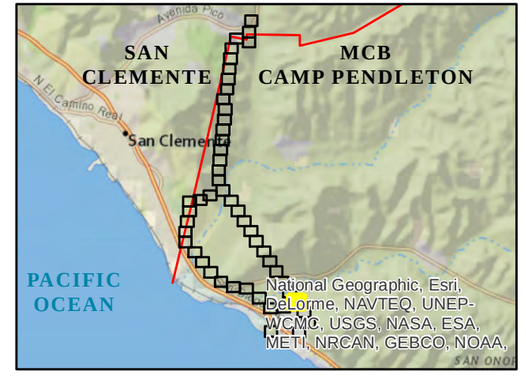
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

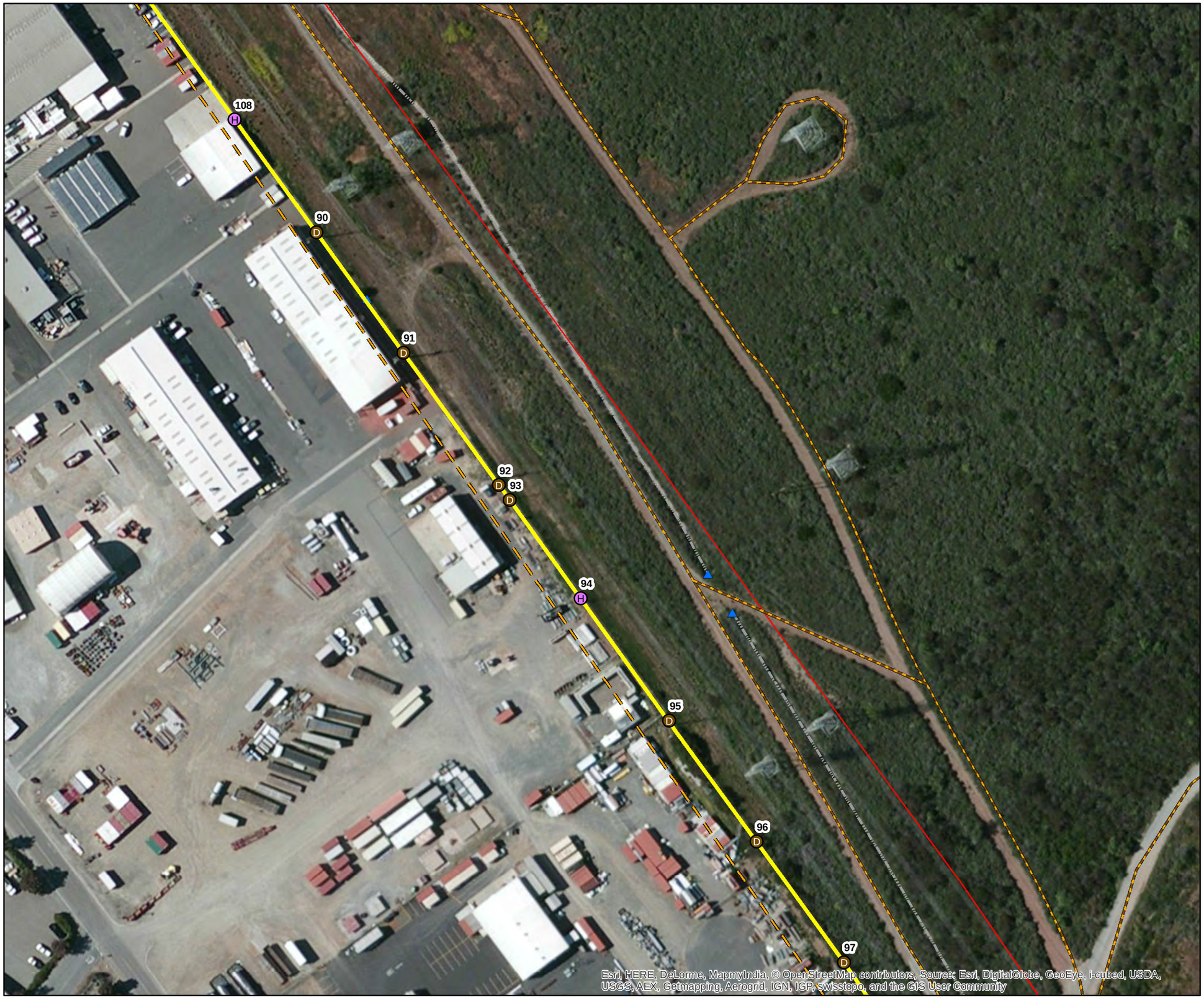
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

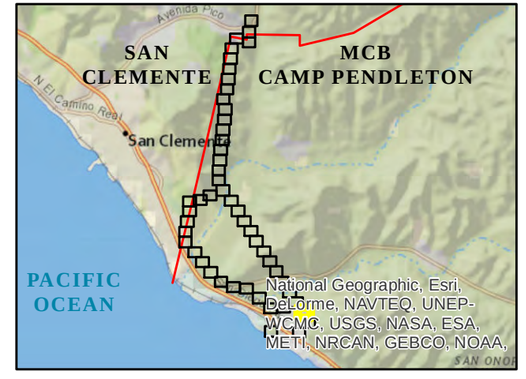
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

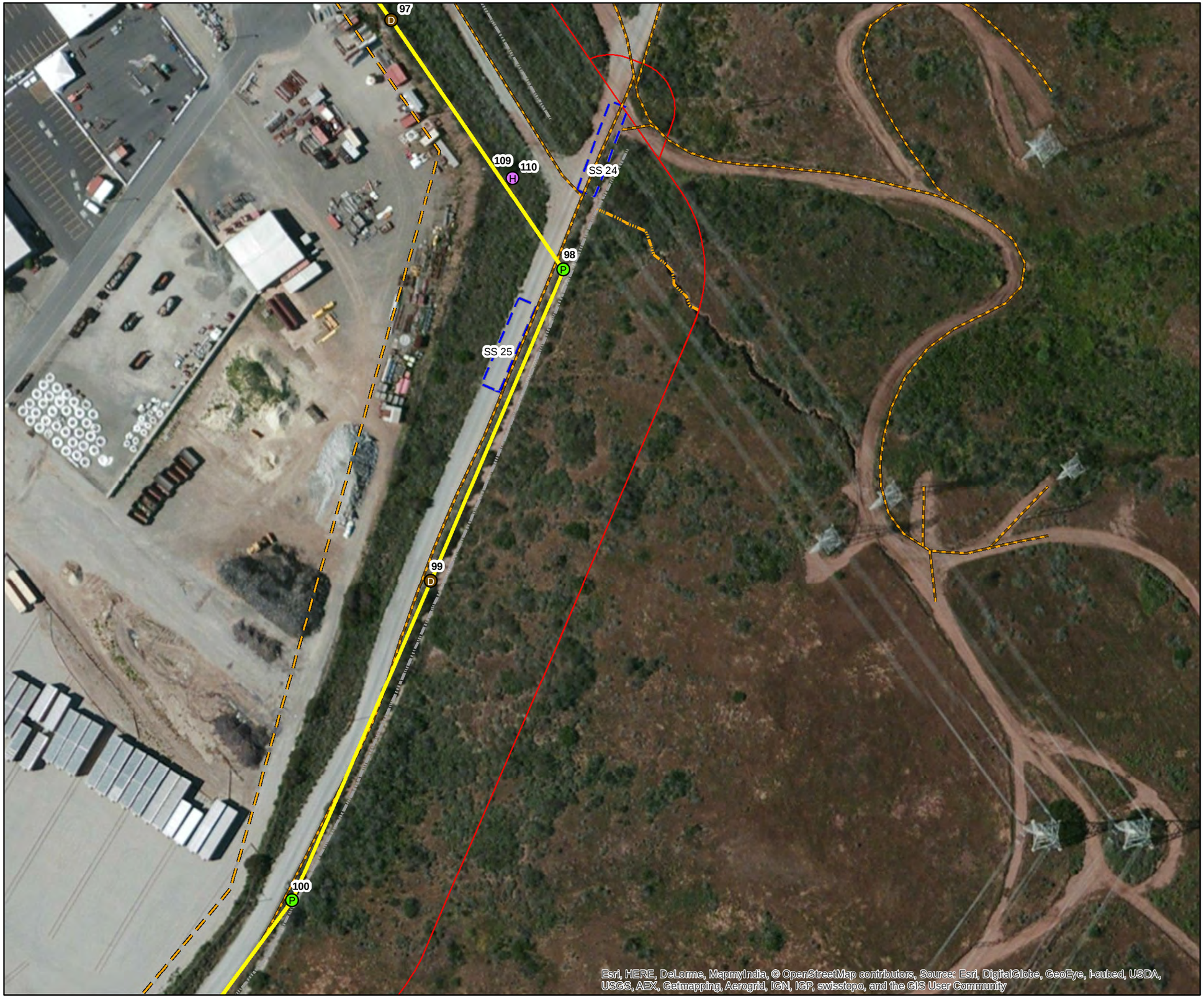
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

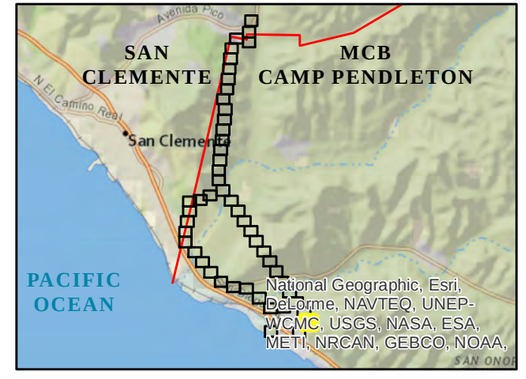
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

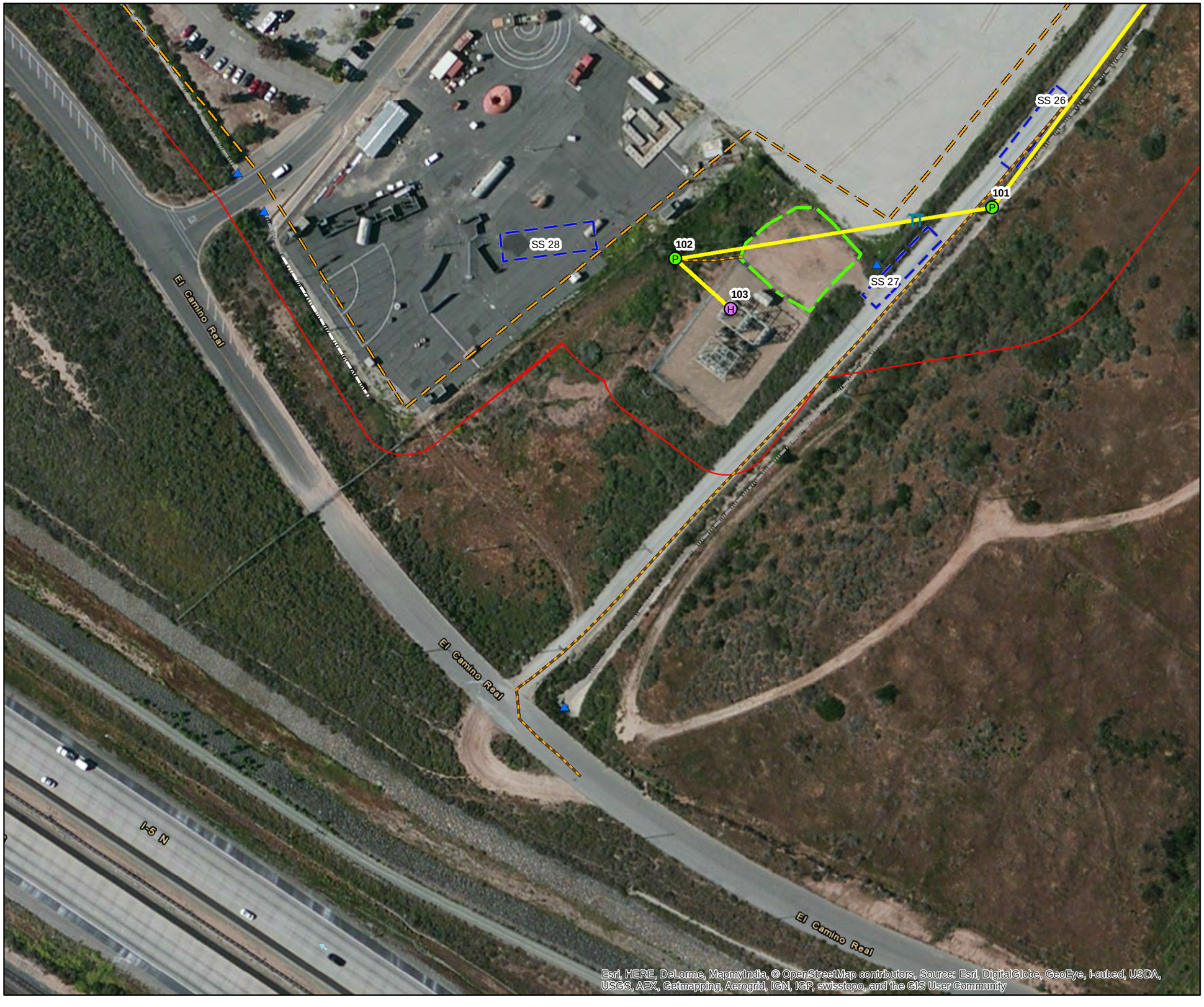
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

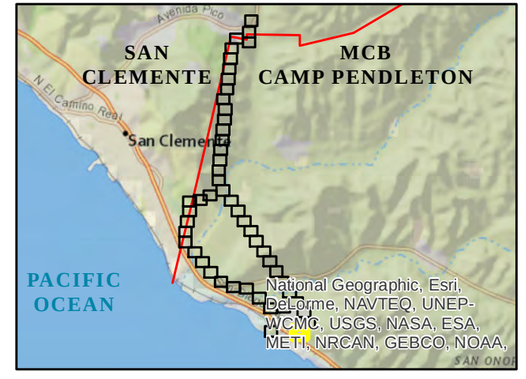
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

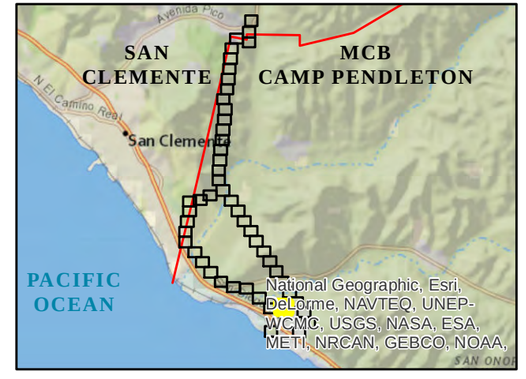
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

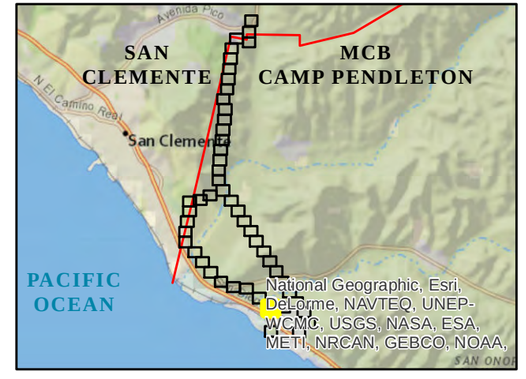
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

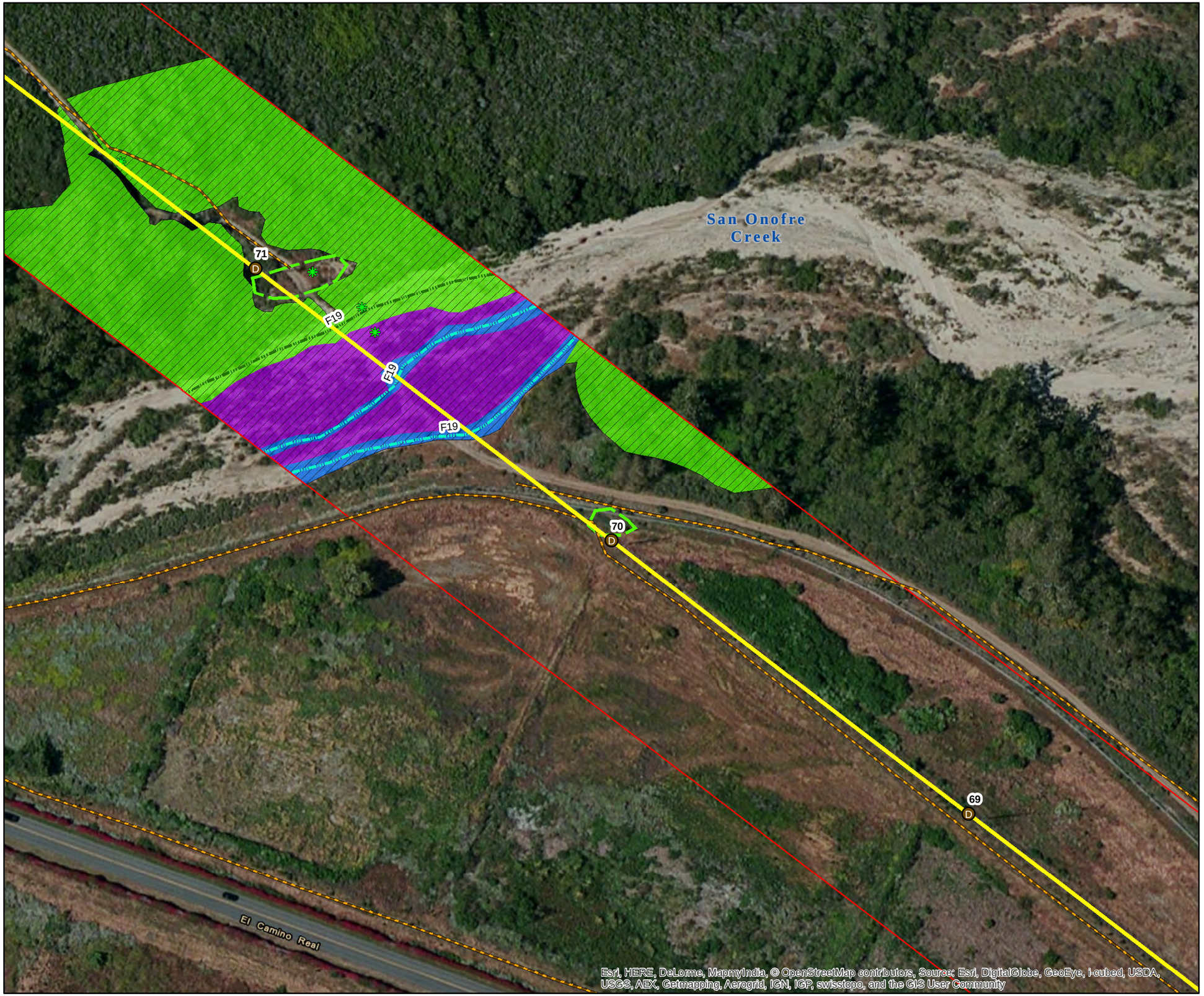
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

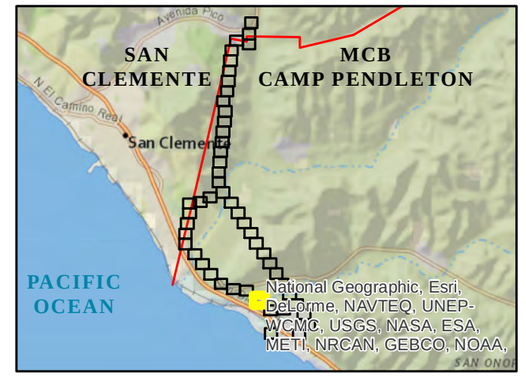
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

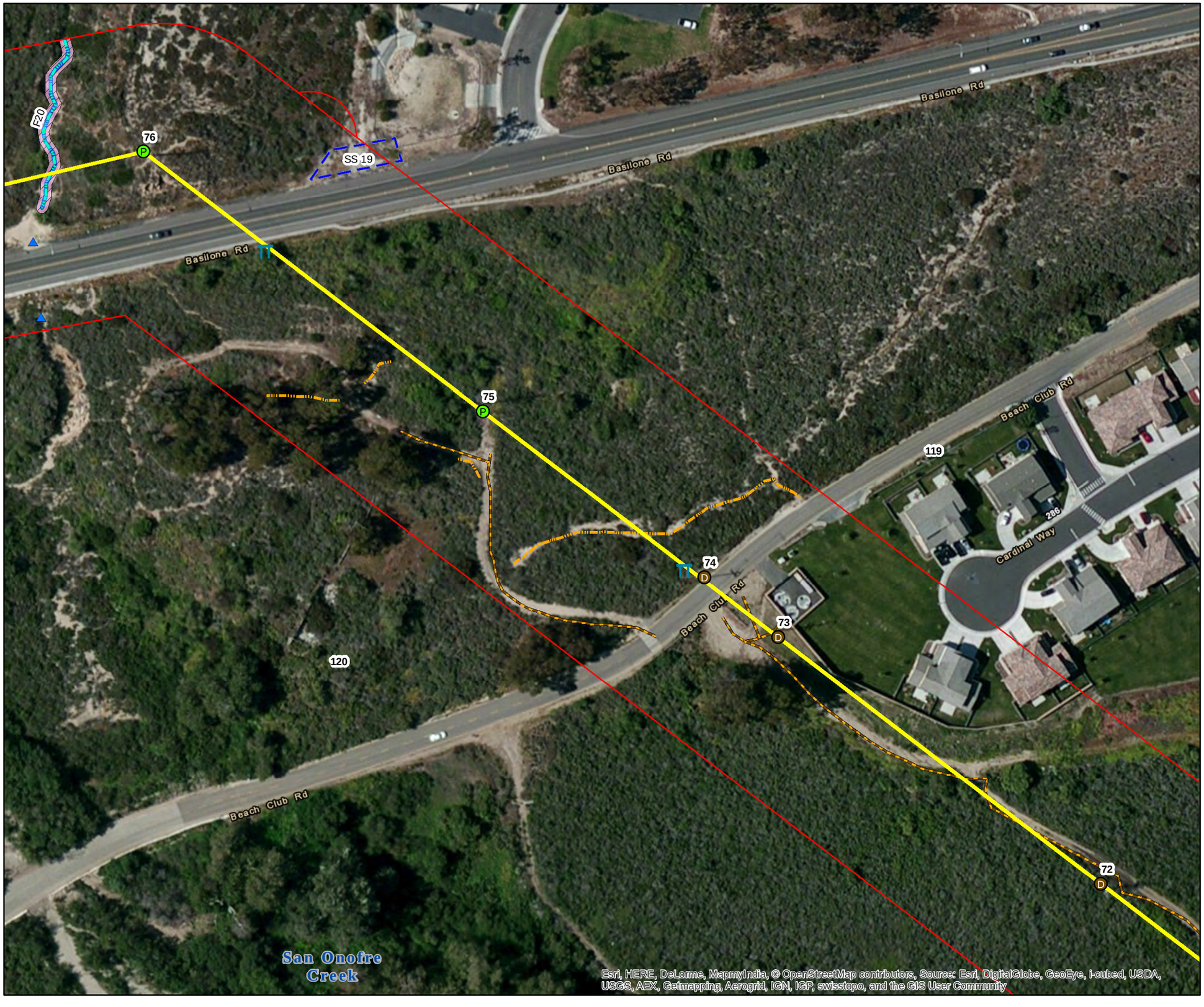
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

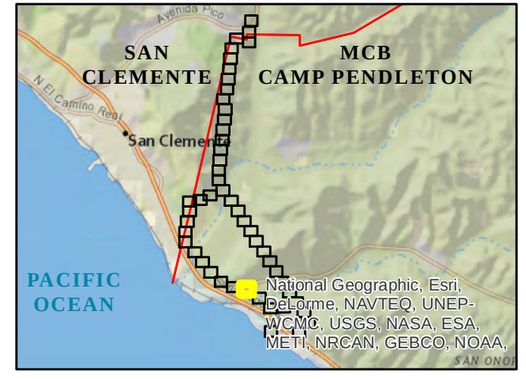
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

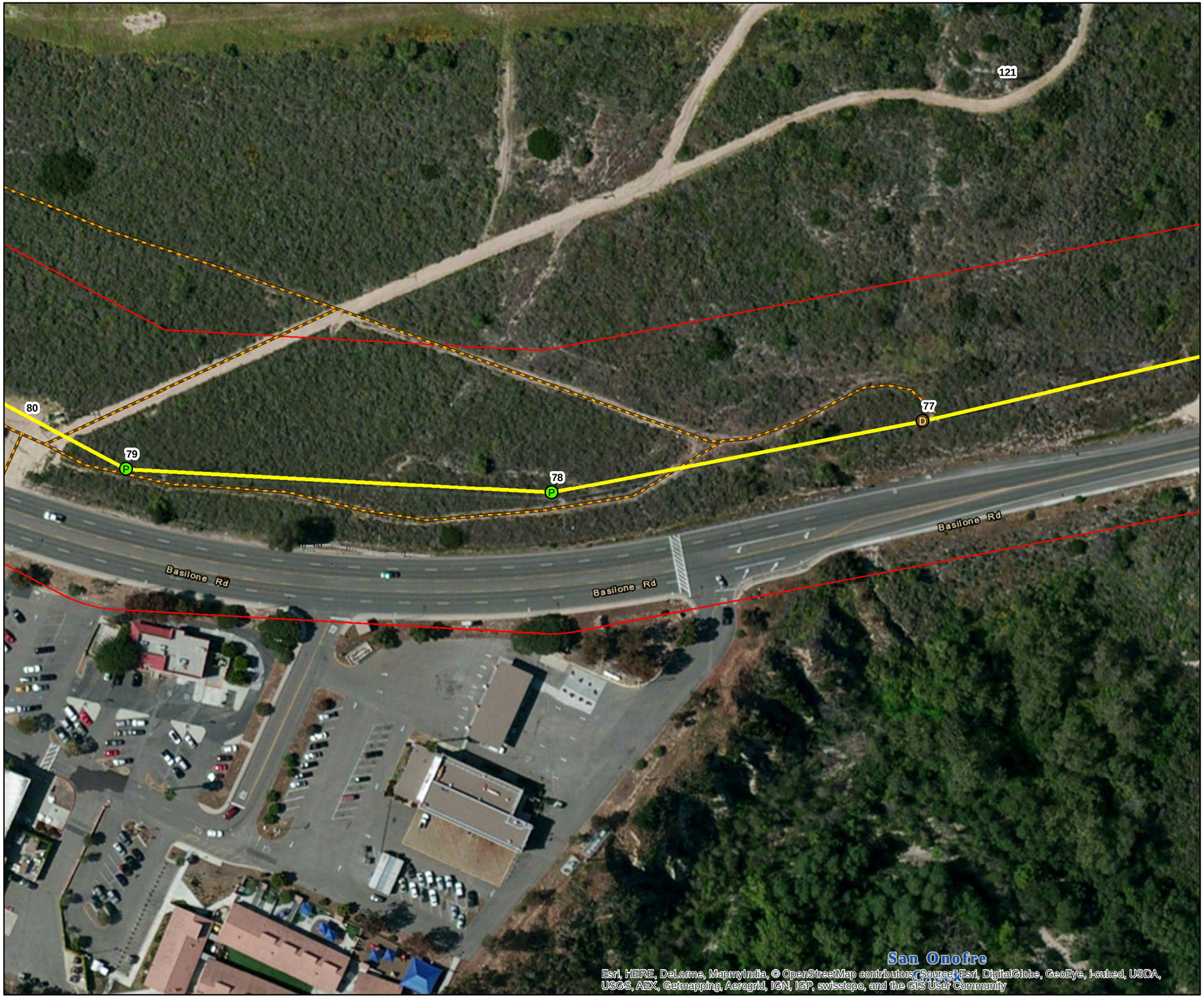
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

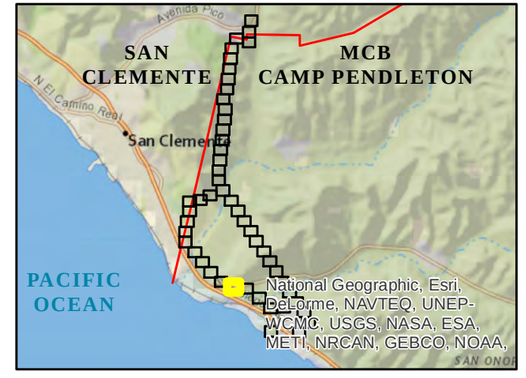
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

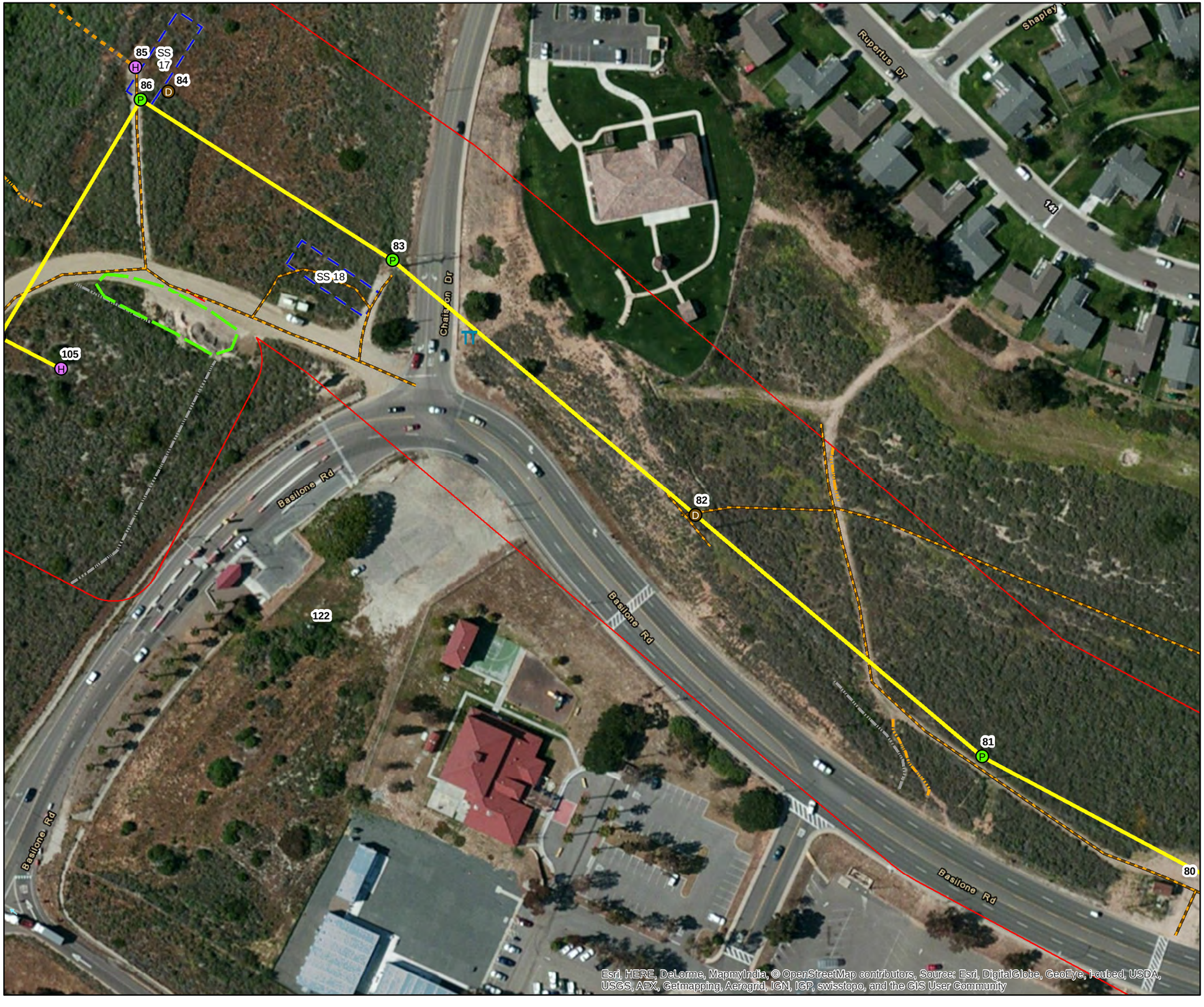
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

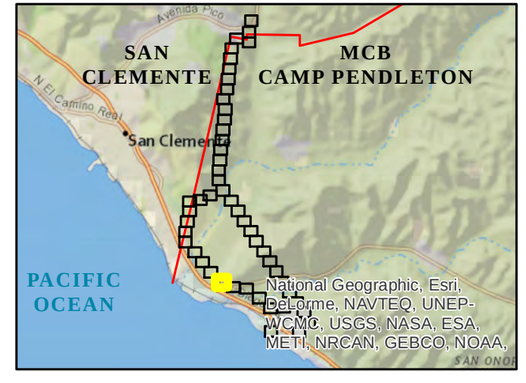
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

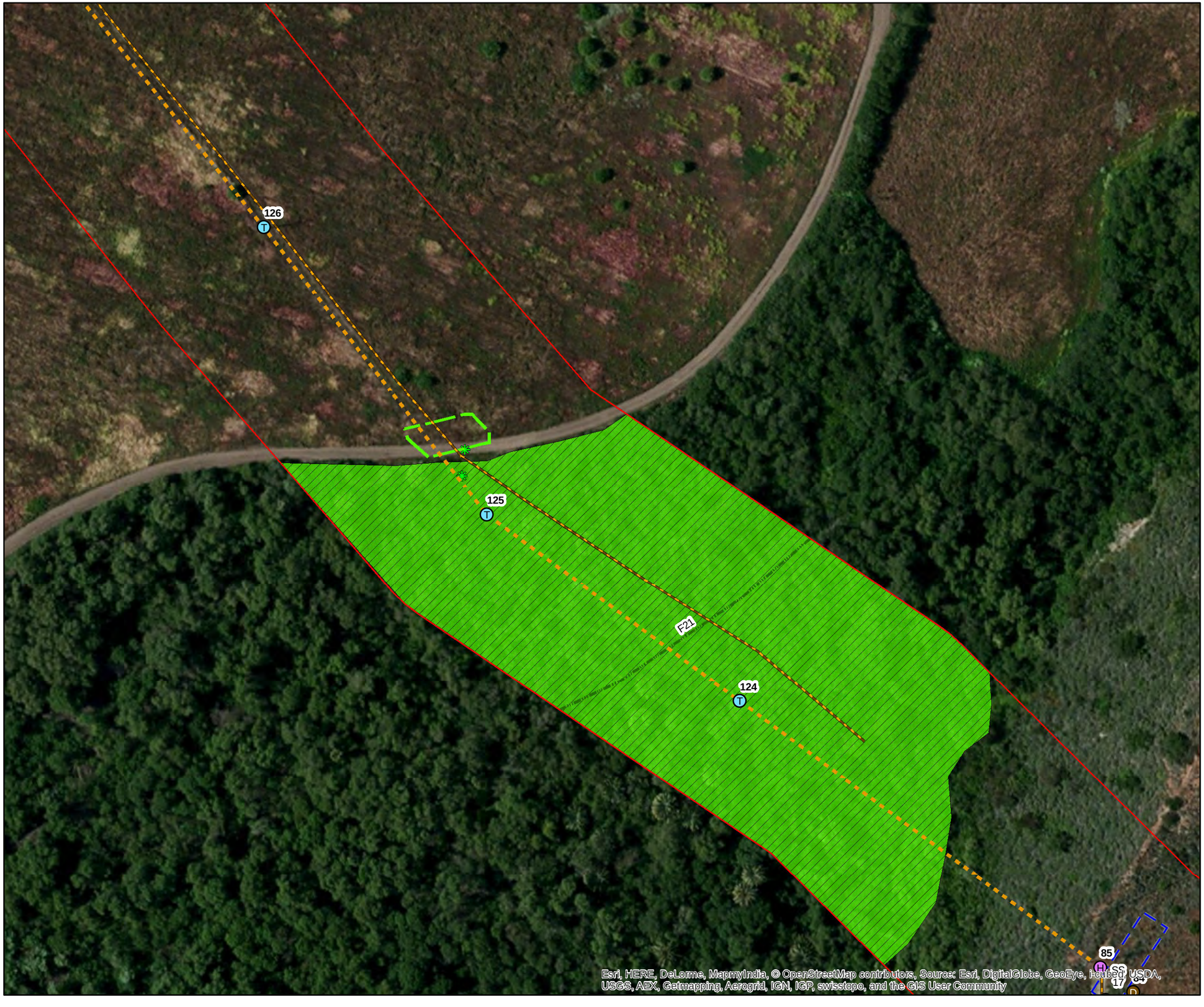
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

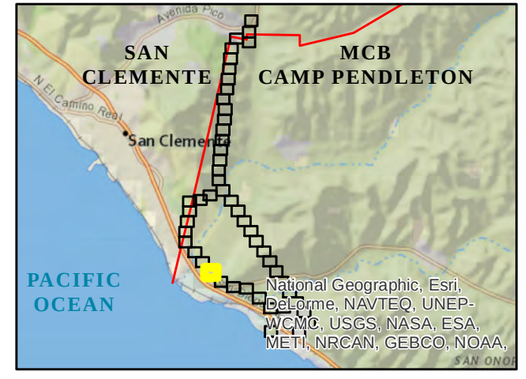
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

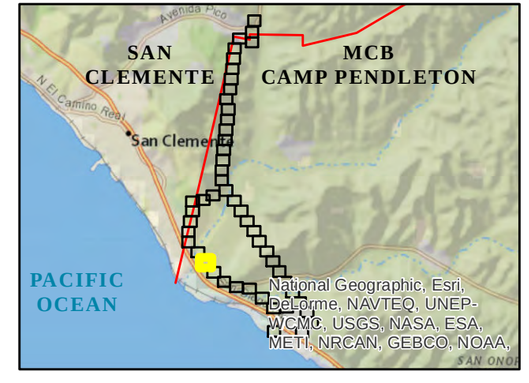
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

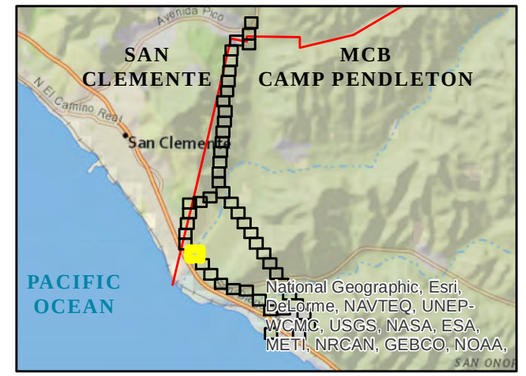
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

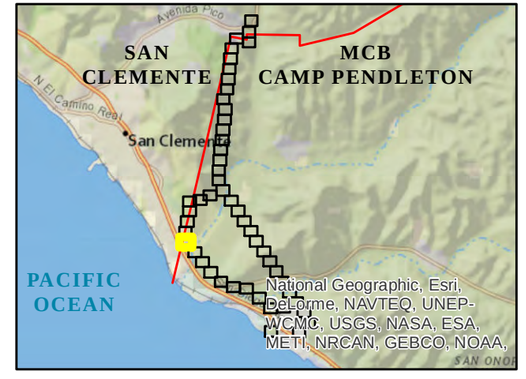
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

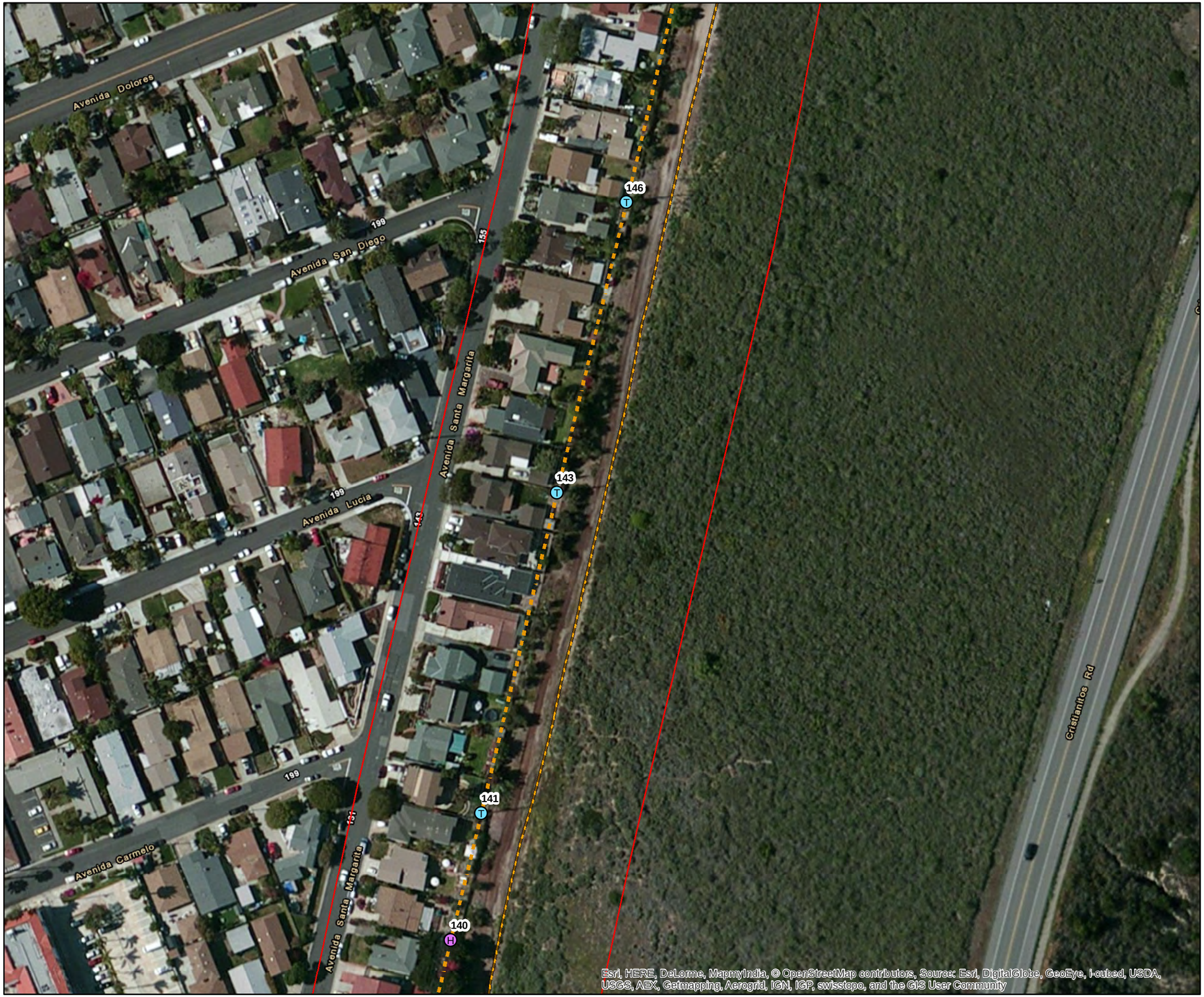
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

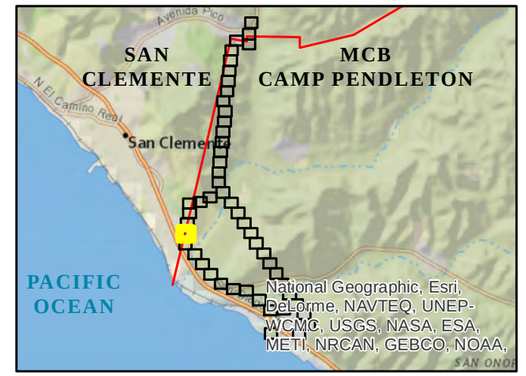
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

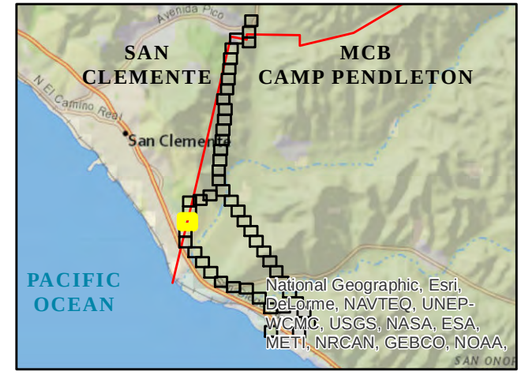
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

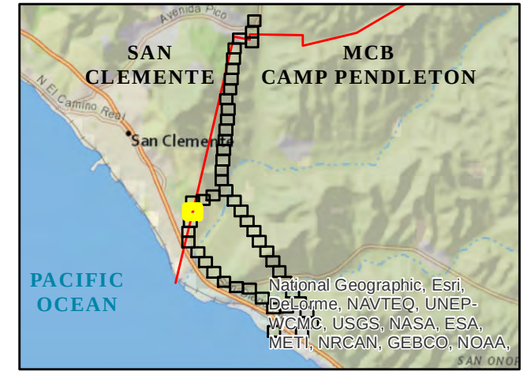
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

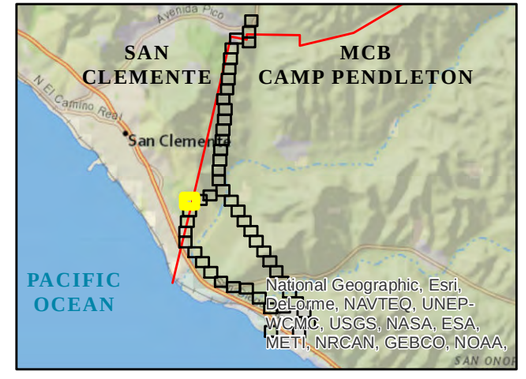
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

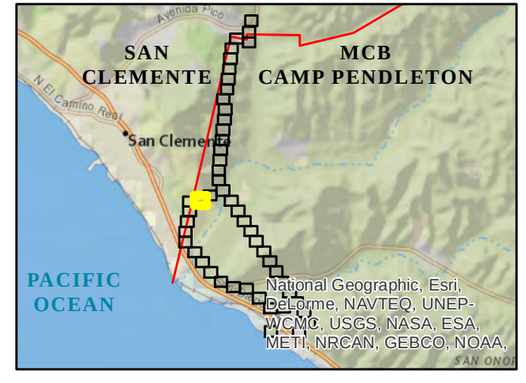
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

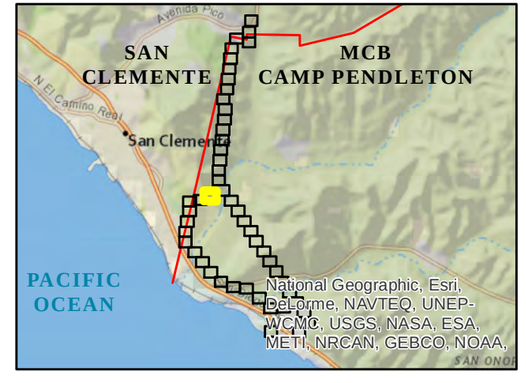
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet

LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

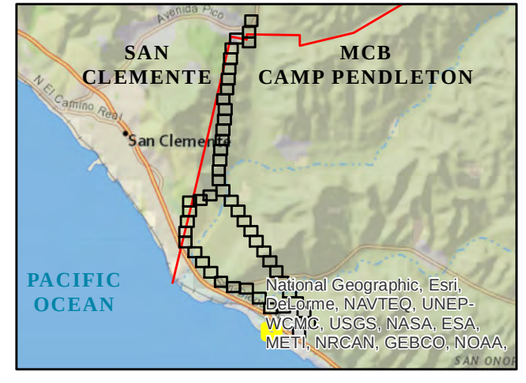
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Pangea Biological

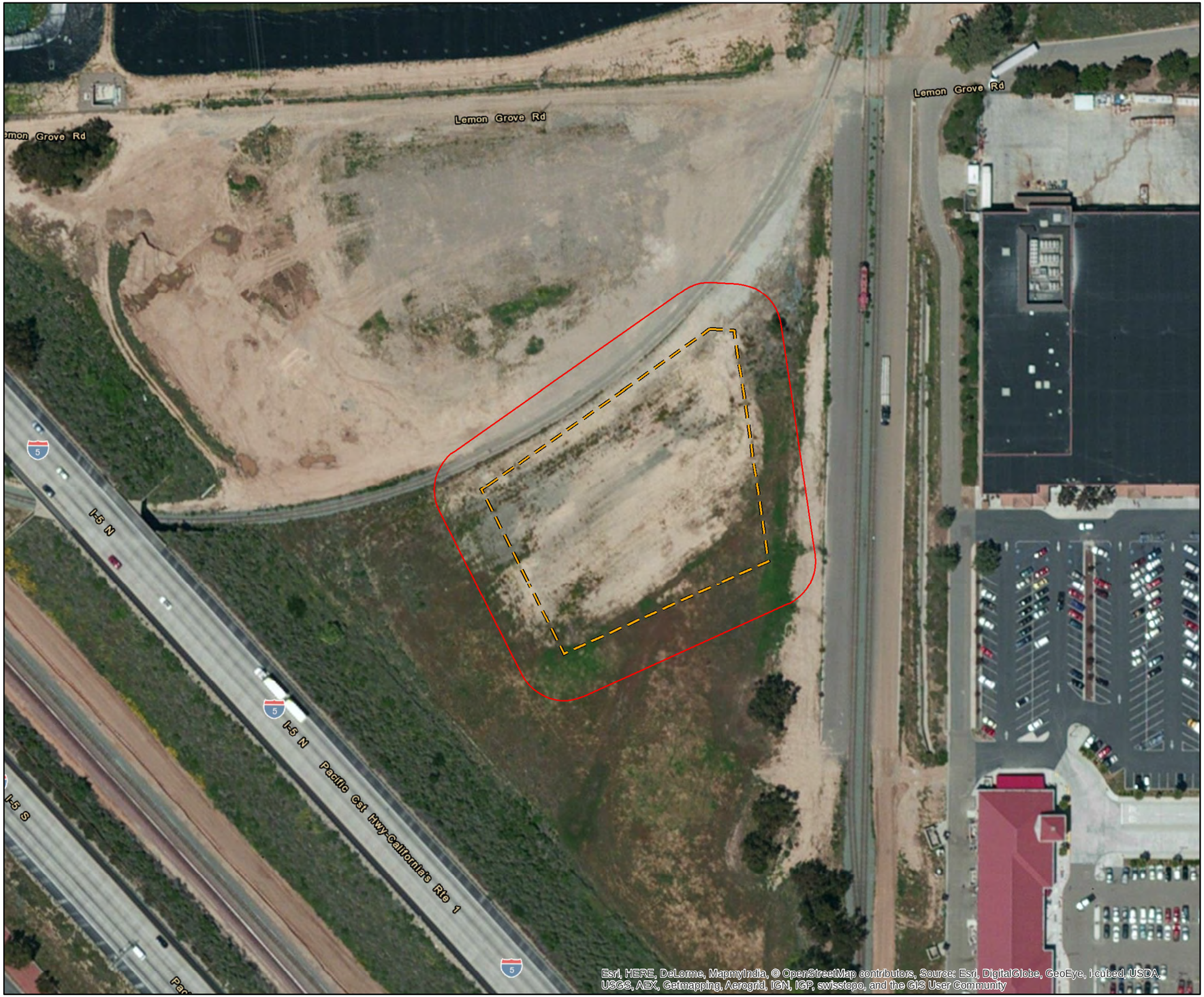
25240 TL695/6971 Reconductor Project

Aquatic Delineation Maps

1 inch = 100 feet @11" x 17"

0 50 100 200 300

Feet



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard_structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
- Access_allowed
- Work/Turnaround/Staging Areas
- Stringing Sites
- Staging Yards
- Survey Corridor

Delineation Results

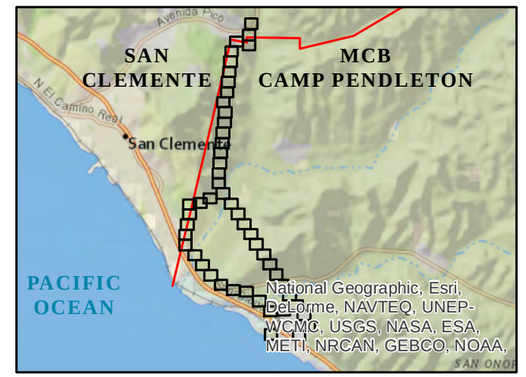
- Sample Points
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- ACOE Wetland/CDFW/RWQCB
- Concrete ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- ACOE Waters/RWQCB/CDFW
- ACOE Wetland/RWQCB
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



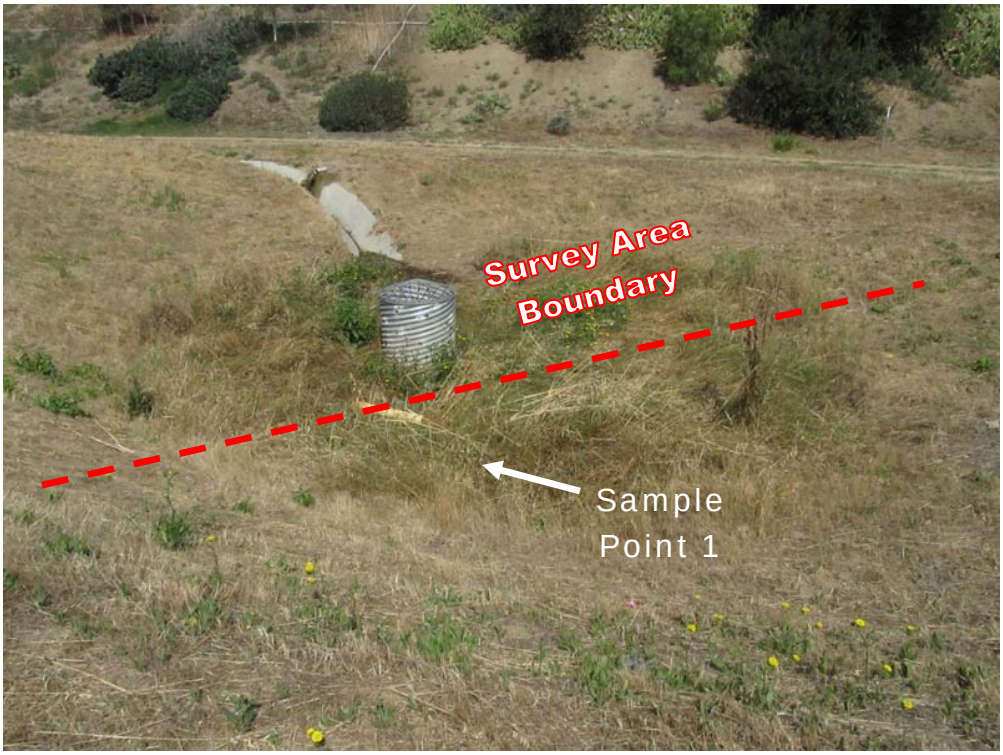
Created By Pangea Biological, October 2015
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

N W E S

Pangea Biological

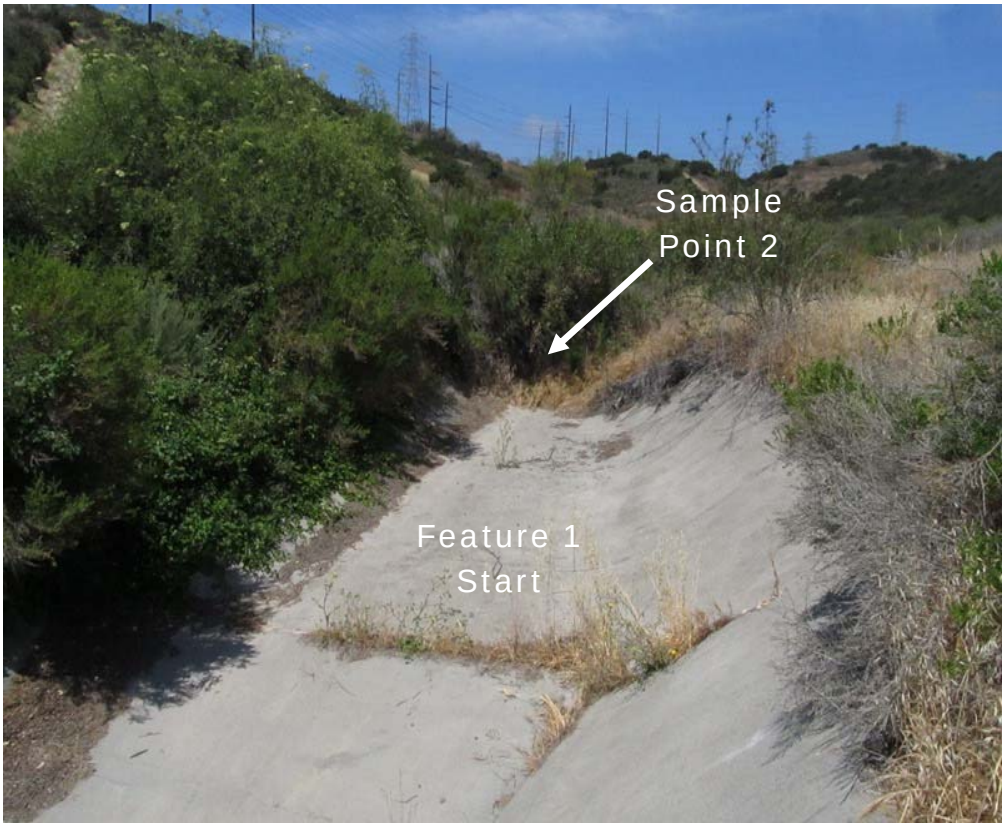
This Page Intentionally Left Blank.

Appendix B – Photo Documentation

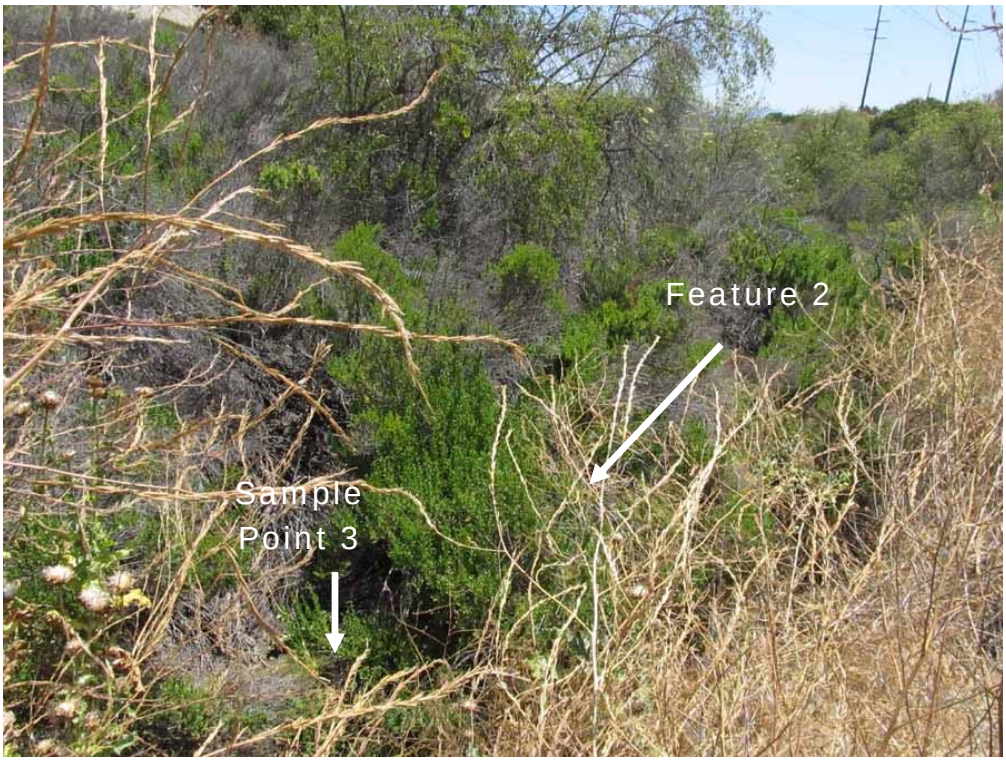


Photograph 1 (Northwest of Talega Staging Yard, Mapbook page 1): Sample Point 1 in basin on survey boundary. View west.

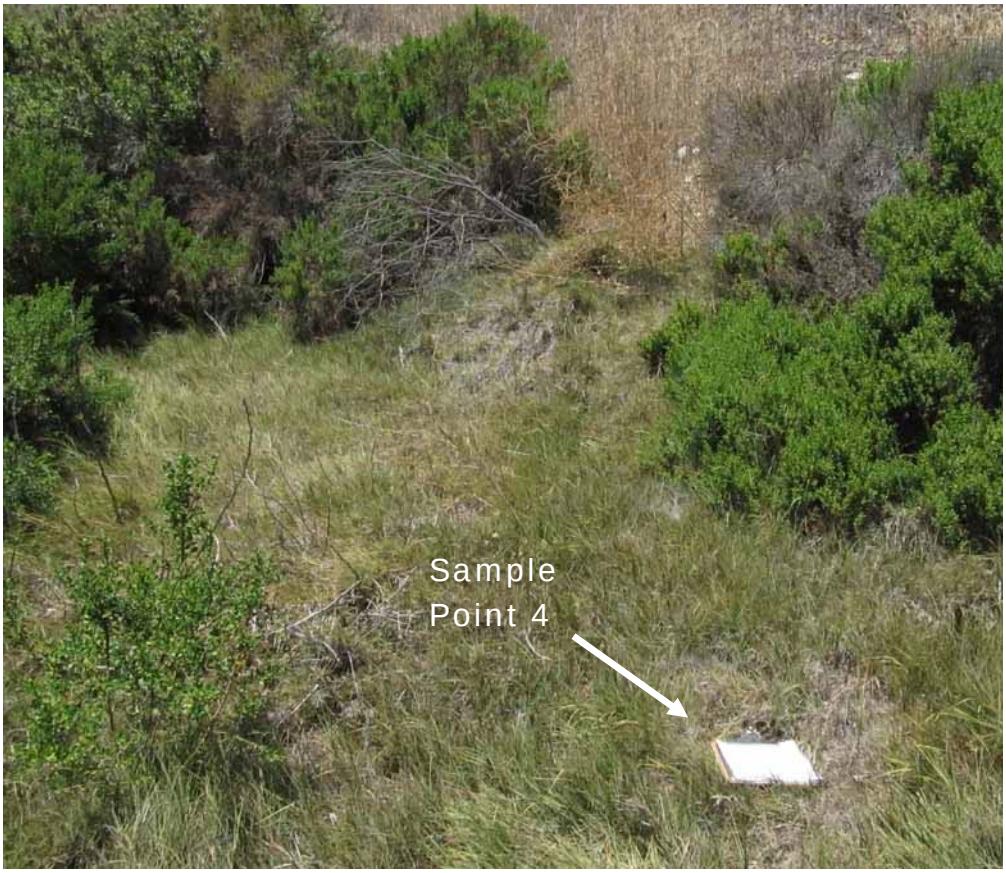
Photograph 2 (East of Talega Substation, Mapbook Pages 2 and 3): Feature 1, concrete channel east of Talega Substation. View east.



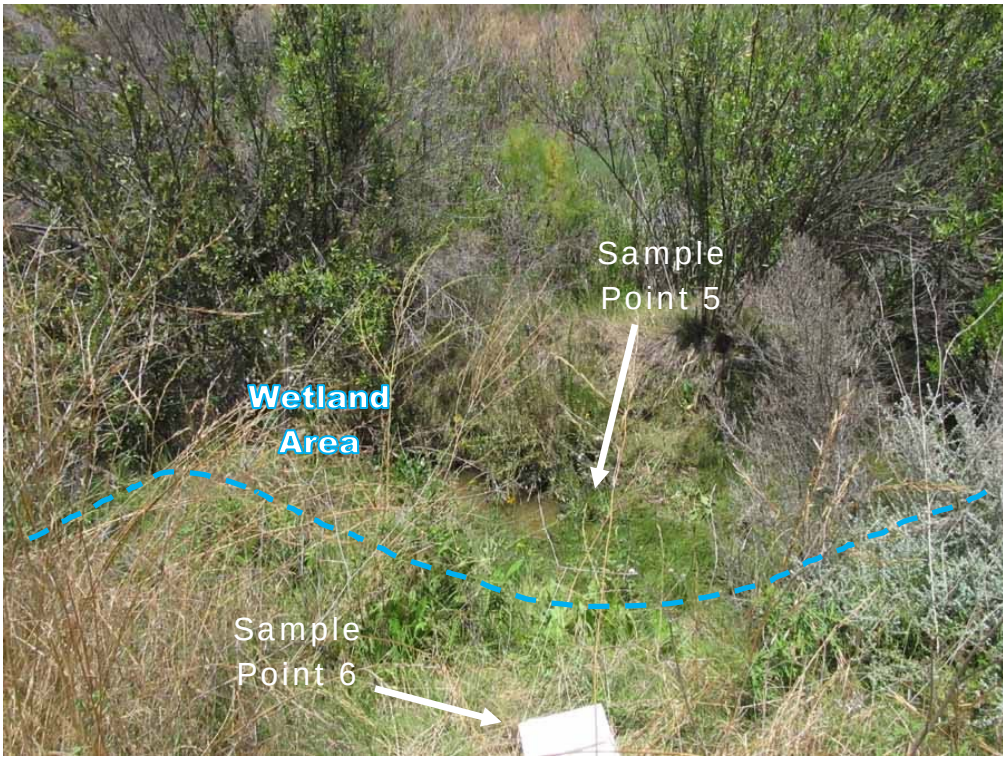
Photograph 3 (Northwest of Stringing Site 2, Mapbook Page 2): Feature 1 start, Sample Point 2, concrete channel west of Talega Substation. View west.



Photograph 4 (South of Pole 10, Mapbook Page 4): Feature 2, Sample Point 3, and ephemeral channel. View east.

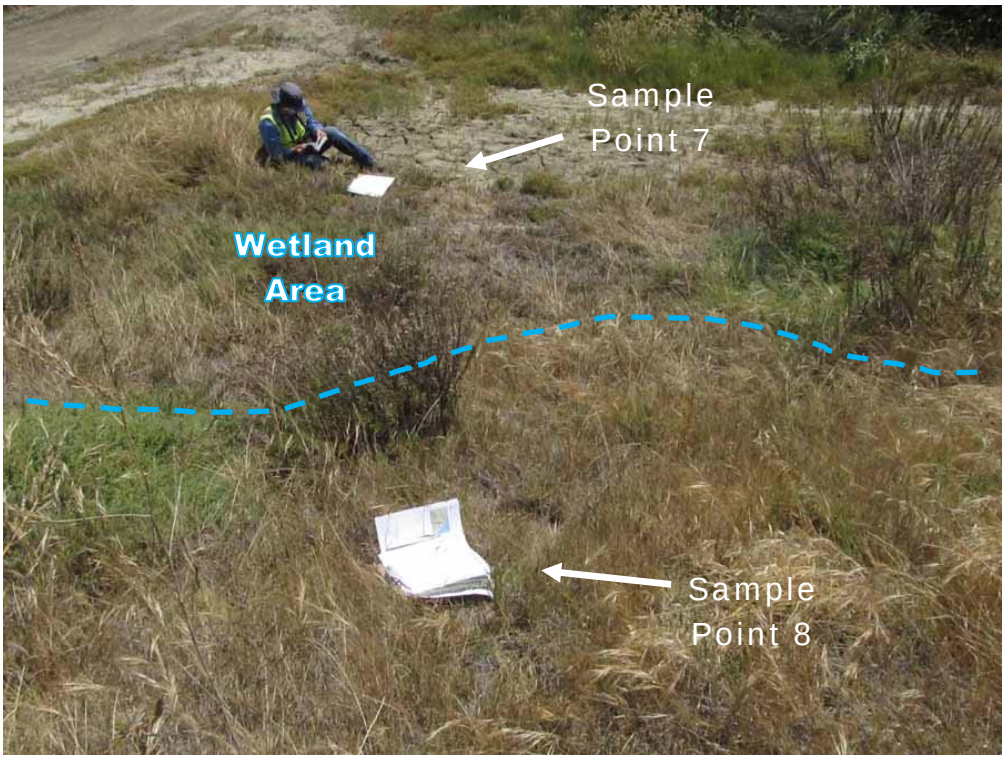


Photograph 5 (Southeast of Pole 14, Mapbook Page 4): Sample Point 4, swale. View northwest.

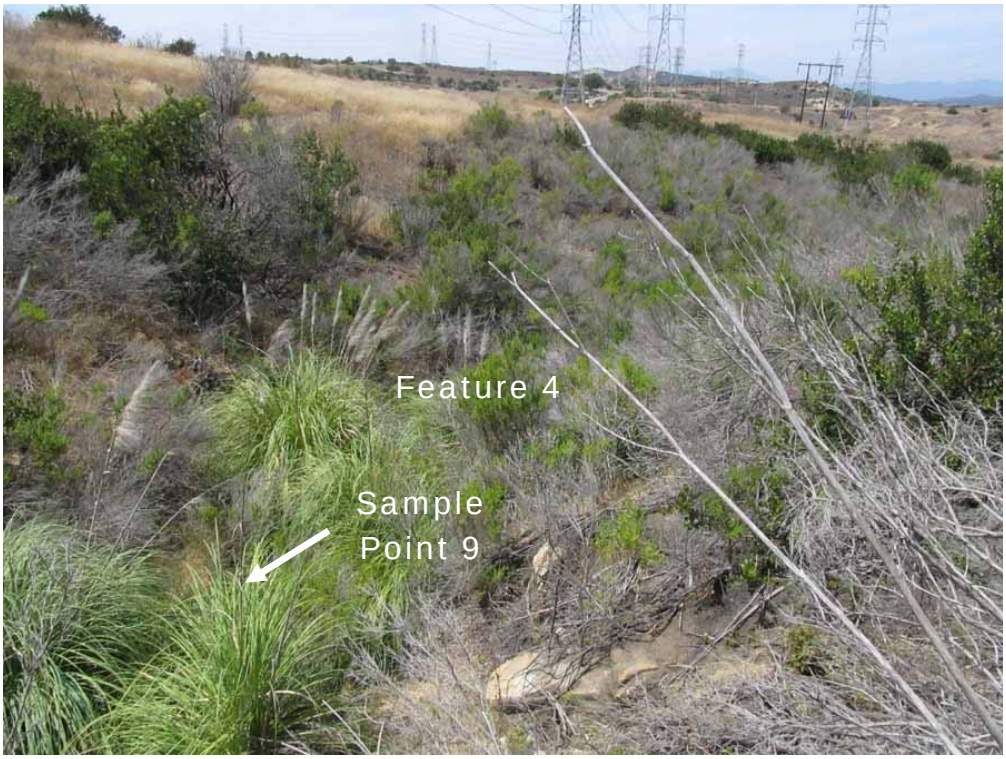


Photograph 6 (Between Pole 16 and Pole 15, Mapbook Page 5): Feature 3, east of access road, Sample Points 5 and 6. View northwest.

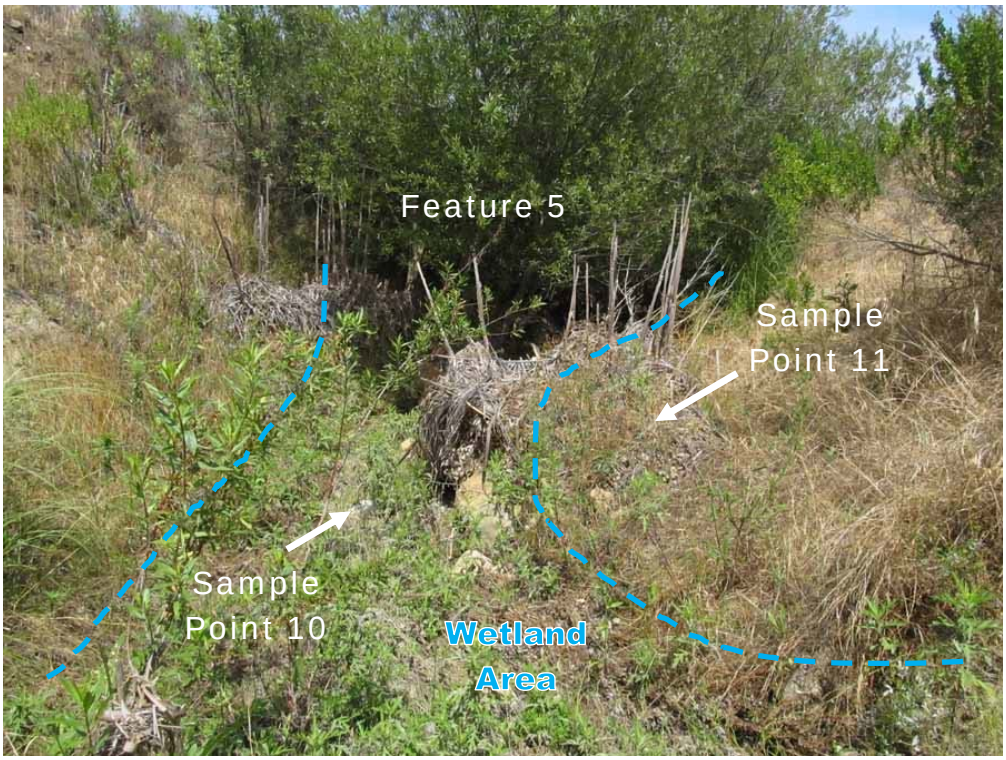
Photograph 7 (Between Pole 16 and Pole 15, Mapbook Page 5): Feature 3, west of access road showing southern willow scrub. View west.



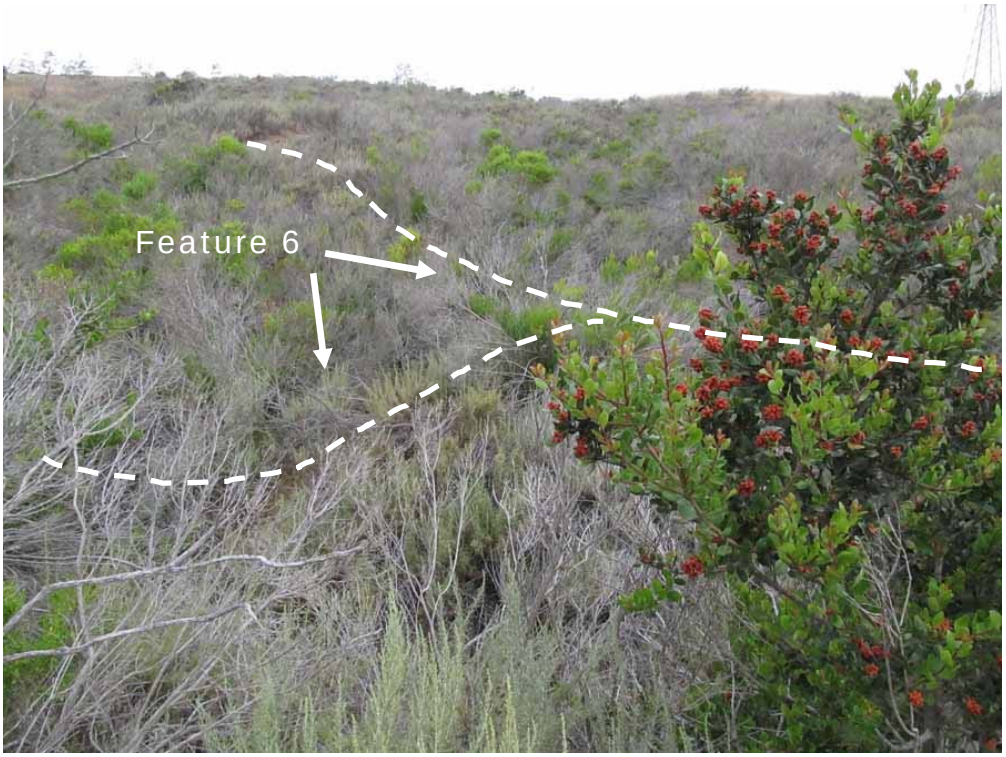
Photograph 8 (Between Pole 16 and Pole 15, Mapbook Page 5): Feature 3, Sample Points 7 and 8, alkali marsh adjacent to access road. View south.



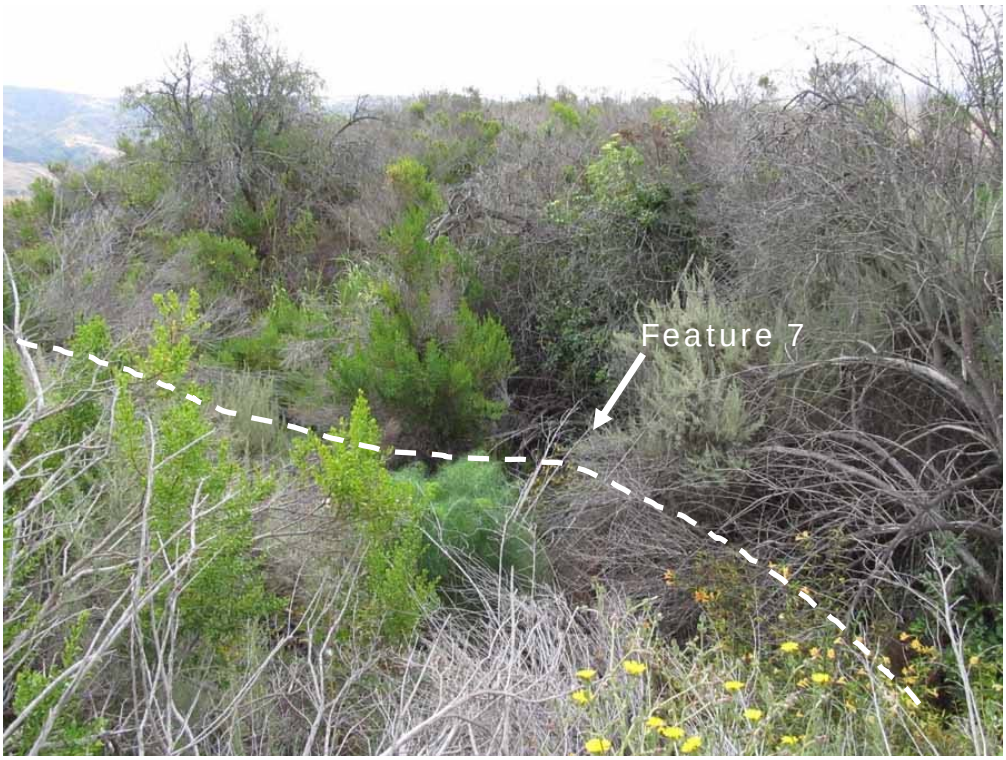
Photograph 9 (Northwest of Pole 18, Mapbook Page 6): Feature 4, Sample Point 9. View northwest.



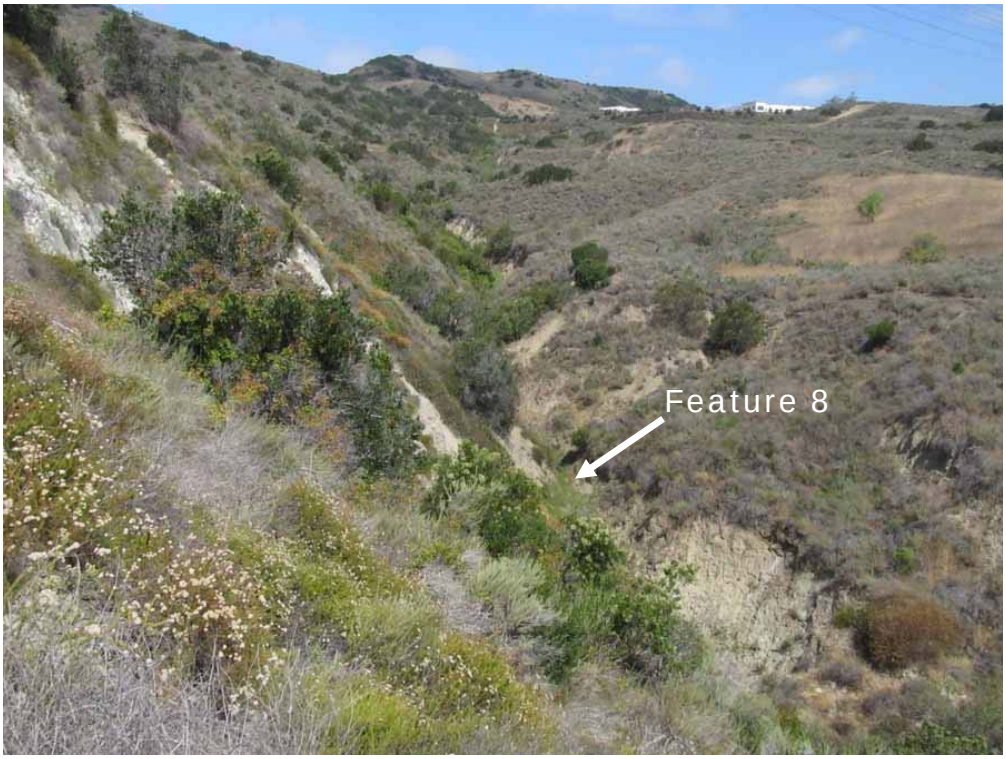
Photograph 10 (Between Poles 20 and 19, Mapbook Page 7): Feature 5, Sample Points 10 and 11. View east.



Photograph 11 (North of Pole 22, Mapbook Page 8): Feature 6, ephemeral channel. View northwest.

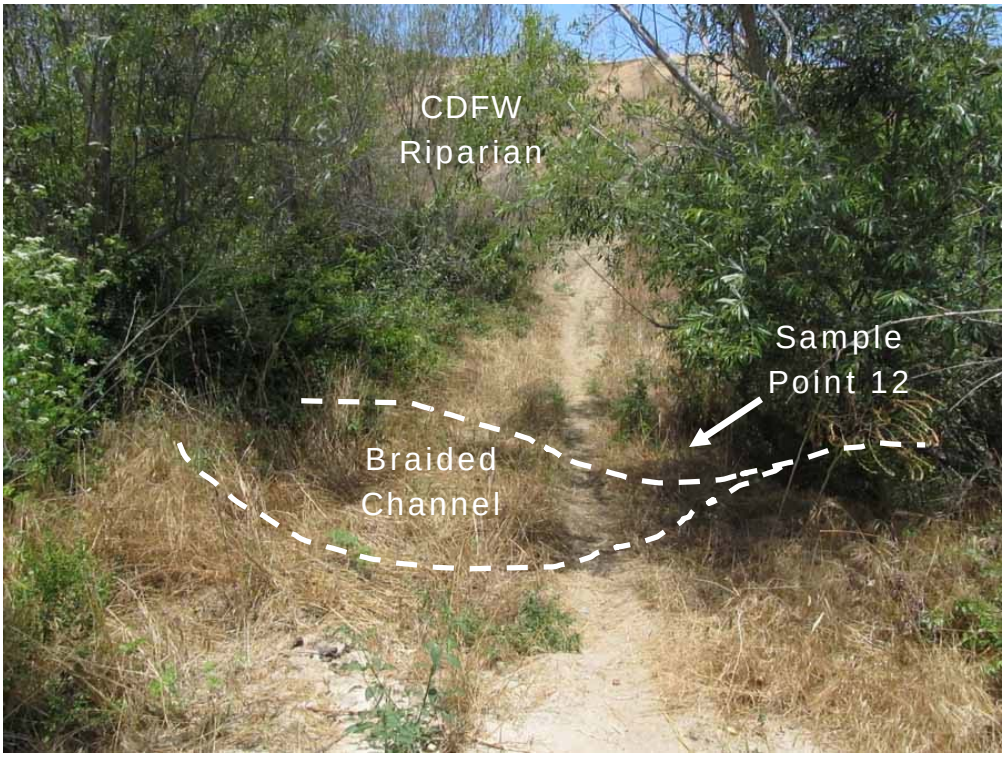


Photograph 12 (Between Poles 24 and 23, Mapbook Pages 9 and 10): Feature 7, ephemeral channel. View east.



Photograph 13 (Between Poles 26 and 25, Mapbook Pages 10 and 11): Feature 8, ephemeral channel at the bottom of steep eroded slope. View northwest.

Photograph 14 (Between Poles 29 and 28, Mapbook Pages 12 and 13): Feature 9, ephemeral channel. View northwest.

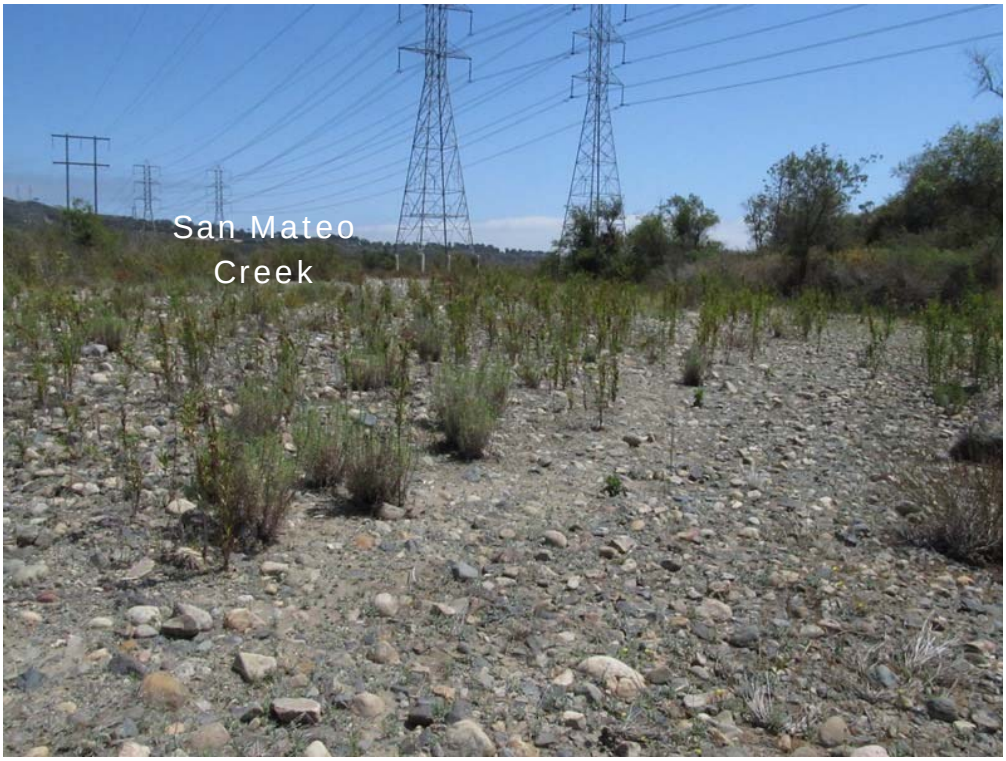


Photograph 15 (Between Poles 36 and 35, Mapbook Page 16): Feature 10, Sample Point 12. View north.

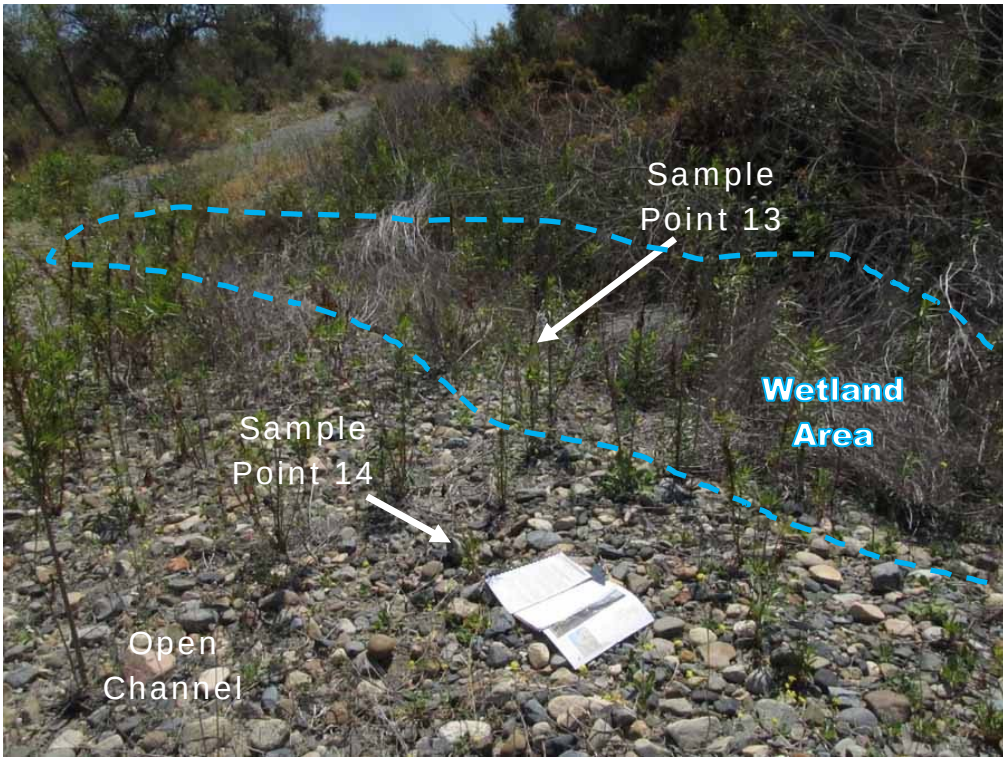
Photograph 16 (Between Poles 36 and 35, Mapbook Page 16): Feature 10 overview. View south.

Photograph 17 (Between Poles 38 and 37, Mapbook Page 17): Feature 11, ephemeral channel. View north.

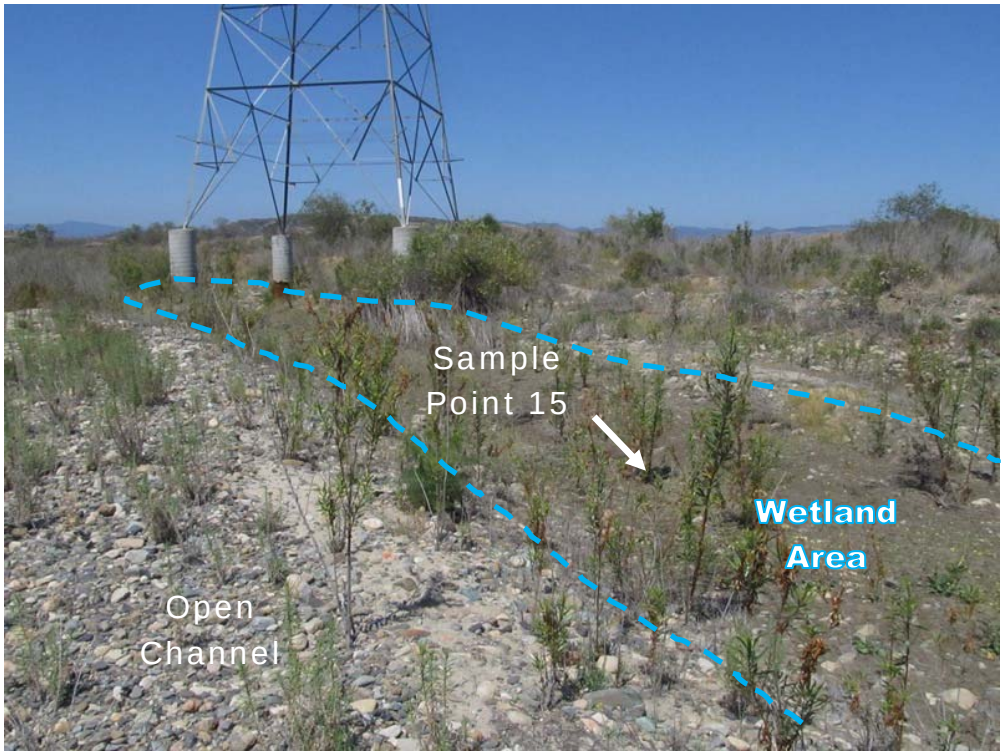
Photograph 18 (Between Stringing Site 8 and Pole 38, Mapbook Pages 17 and 18): Feature 12, ephemeral channel. View west.



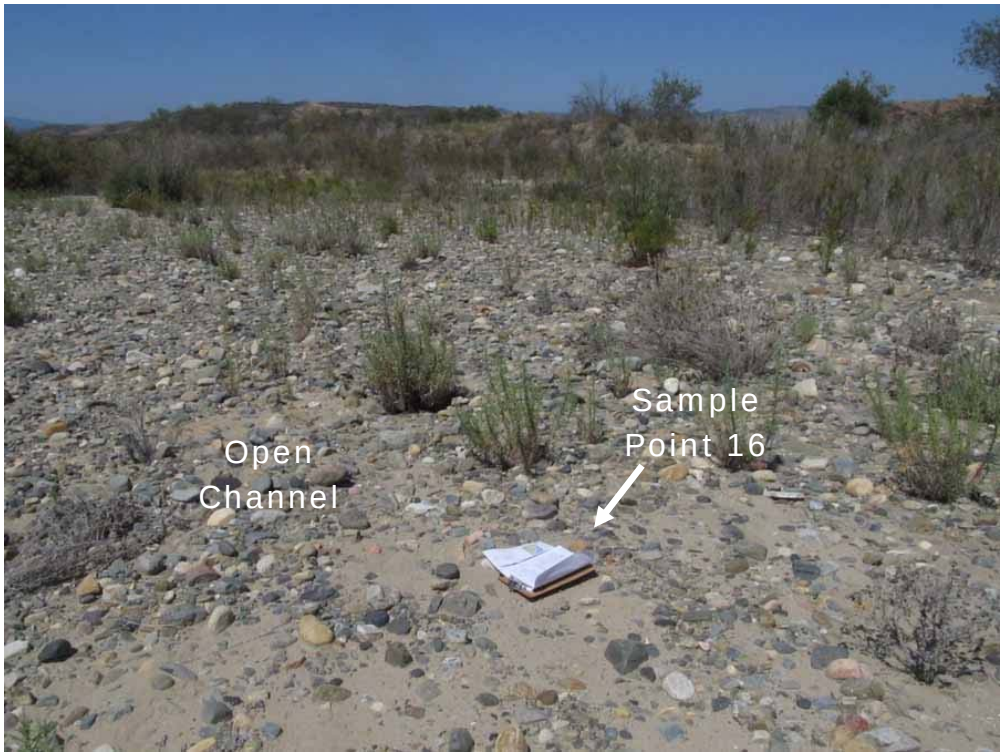
Photograph 19 (Between Poles 44 and 43, Mapbook Pages 19 and 20): Feature 13, San Mateo Creek, eastern portion. View southwest.



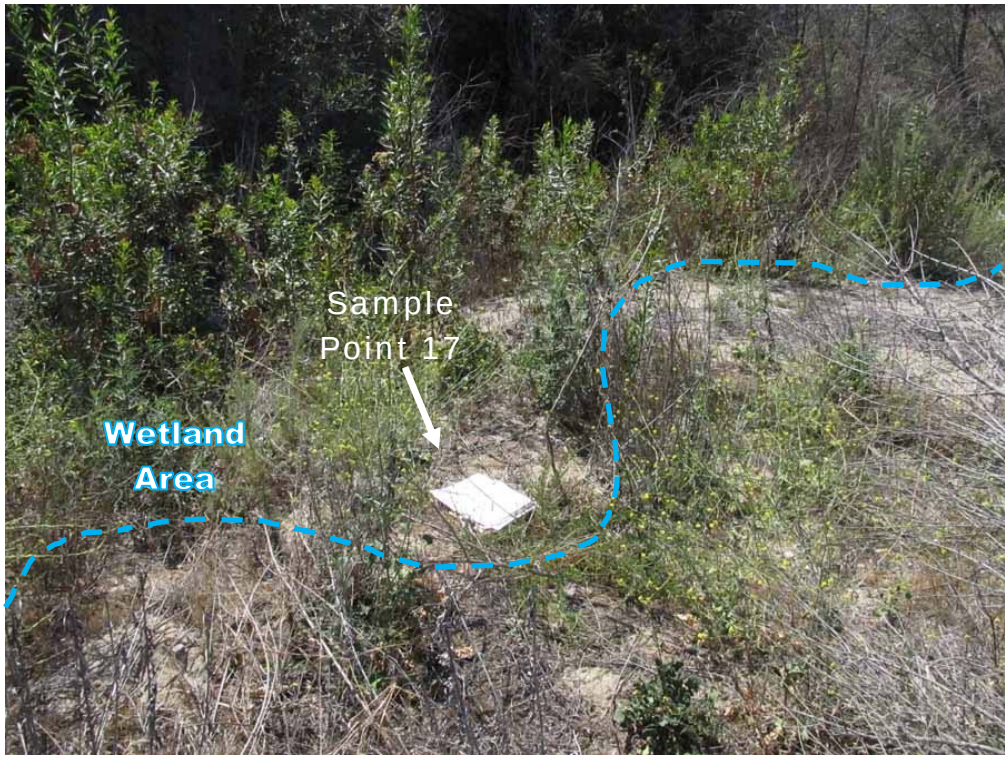
Photograph 20 (Between Poles 44 and 43, Mapbook Pages 19 and 20): San Mateo Creek, Sample Points 13 and 14. View northwest.



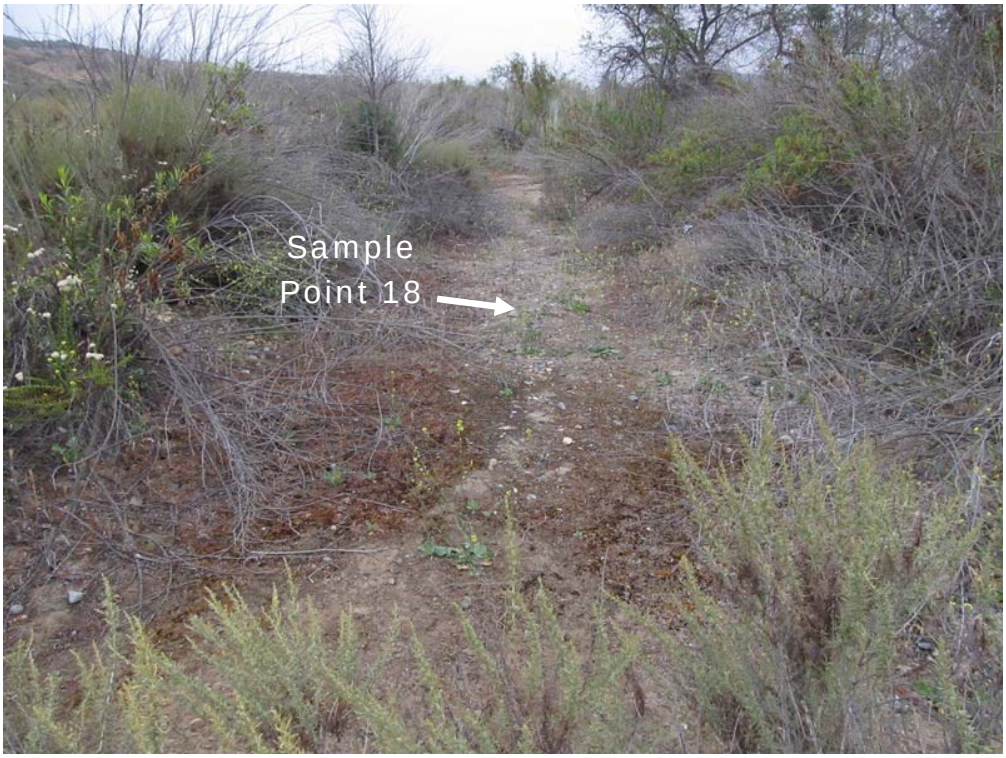
Photograph 21 (Between Poles 44 and 43, Mapbook Page 19): San Mateo Creek, Sample Point 15. View northeast.



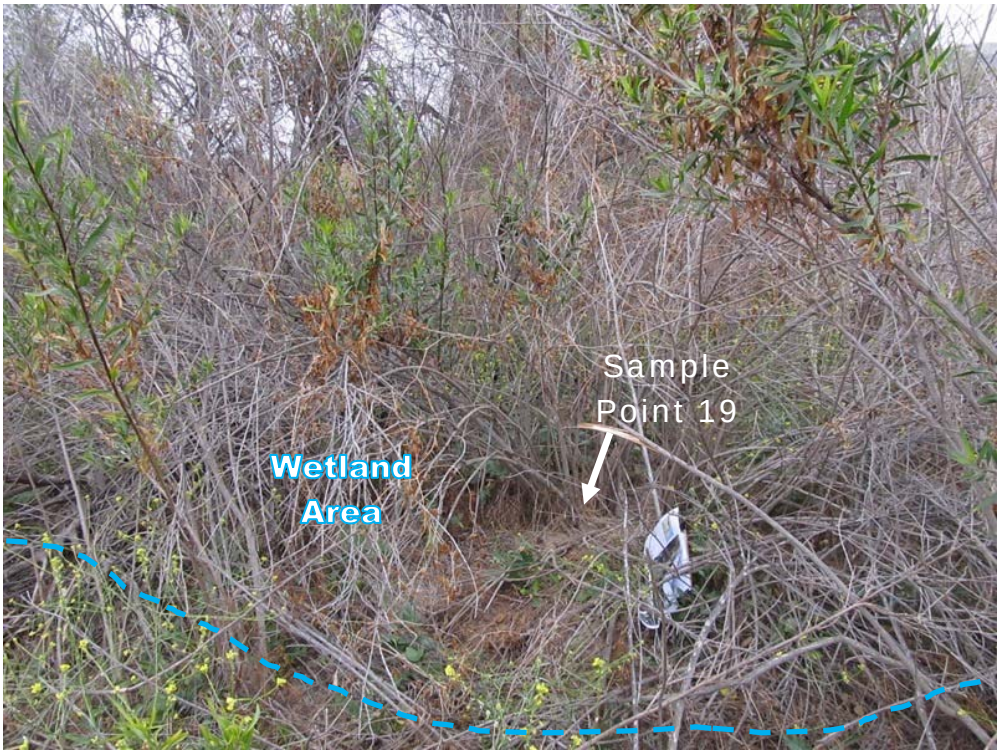
Photograph 22 (East of Pole 43, Mapbook Page 19): San Mateo Creek, Sample Point 16 in proposed stringing site. View north.



Photograph 23 (East of Pole 43, Mapbook Page 19): San Mateo Creek, Sample Point 17. View west.

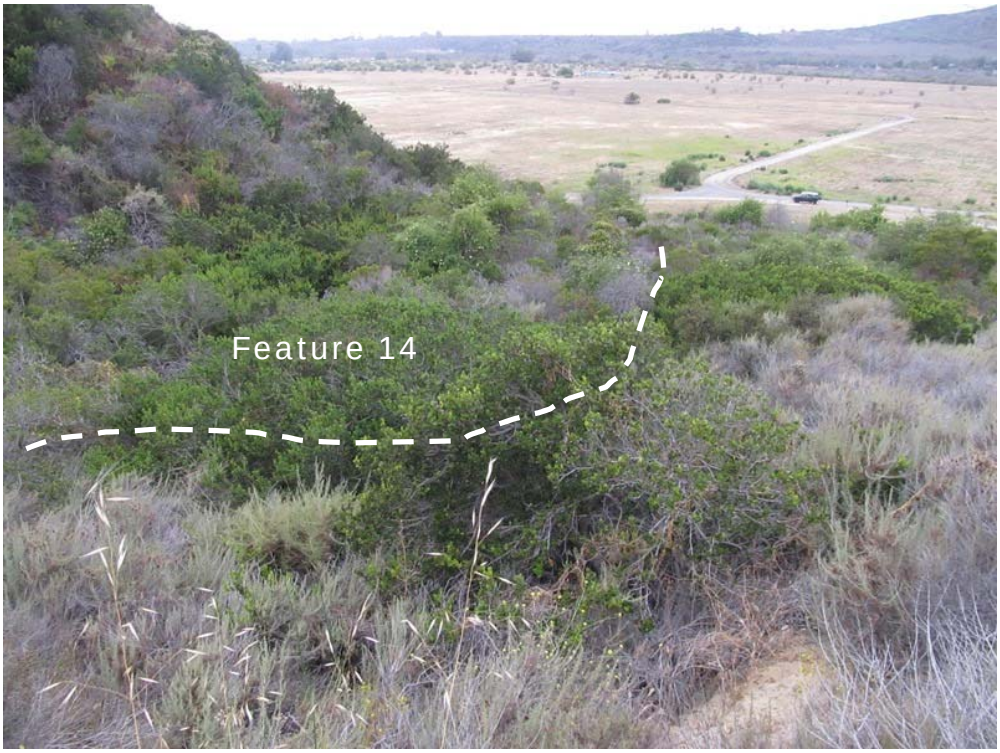


Photograph 24 (Between Poles 44 and 43, Mapbook Page 19): San Mateo Creek, Sample Point 18. View north.



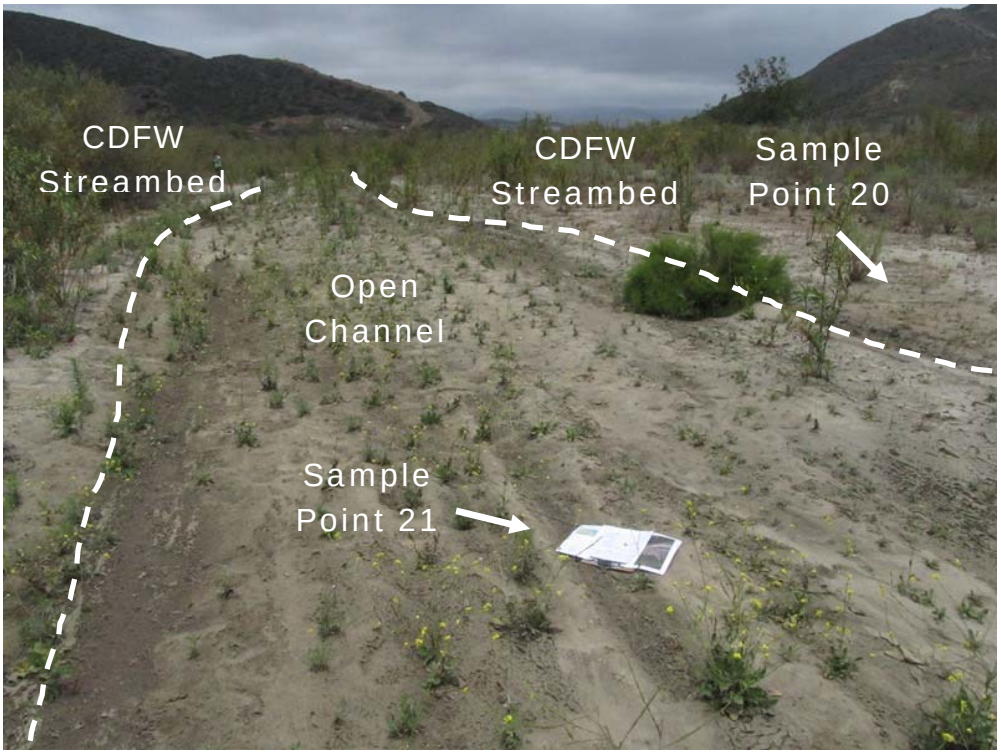
Photograph 25 (Between Poles 44 and 43, Mapbook Page 19): San Mateo Creek, Sample Point 19. View west.

Photograph 26 (Between Poles 47 and 46, Mapbook Page 23): Non-jurisdictional erosional feature near Feature 14. View north.

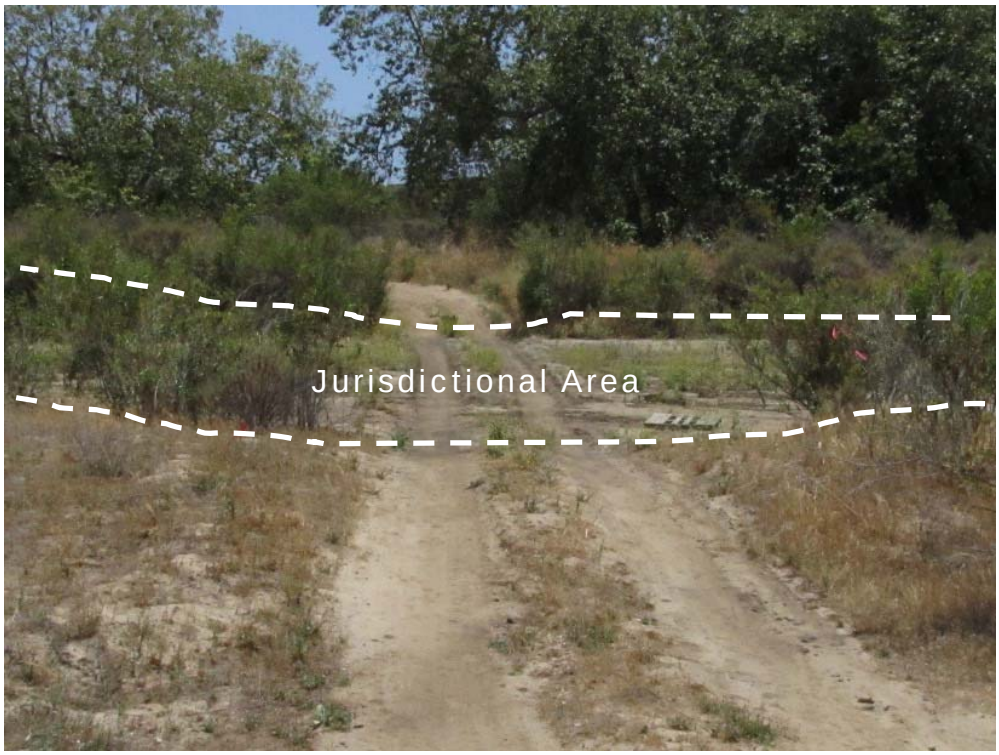


Photograph 27 (Between Poles 47 and 46, Mapbook Page 23): Feature 14, ephemeral channel. View northwest.

Photograph 28 (Between Pole 53 and Pole 52, Mapbook Page 29): Feature 15, San Onofre Creek, eastern potion. View north.



Photograph 29 (Between Pole 53 and Pole 52, Mapbook Page 29): San Onofre Creek, Sample Points 20 and 21. View east.



Photograph 30 (Between Pole 53 and Pole 52, Mapbook Page 29): San Onofre Creek, access road crossing. View south.

Photograph 31 (Between Poles 88 and 56, Mapbook Page 30): Feature 16, ephemeral channel at the end of concrete ditch. View west.

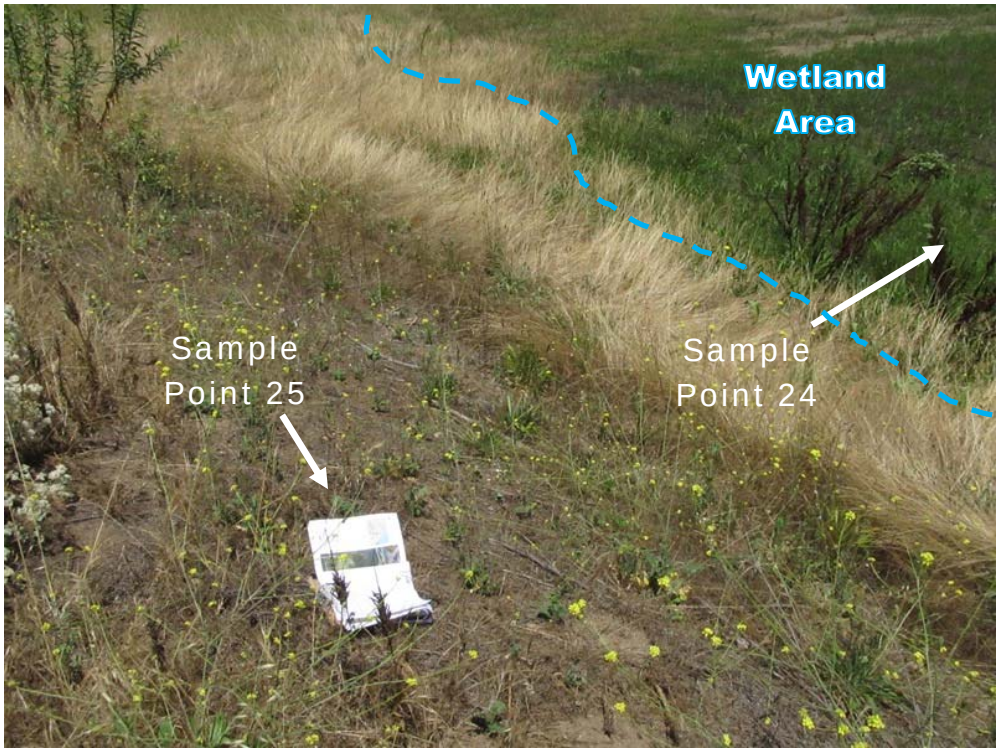
Photograph 32 (Between Poles 57 and 56, Mapbook Page 30): Feature 17. View northeast.

Photograph 33 (Northwest of Pole 88, Mapbook Page 30): Feature 17, Sample Point 22. View south.

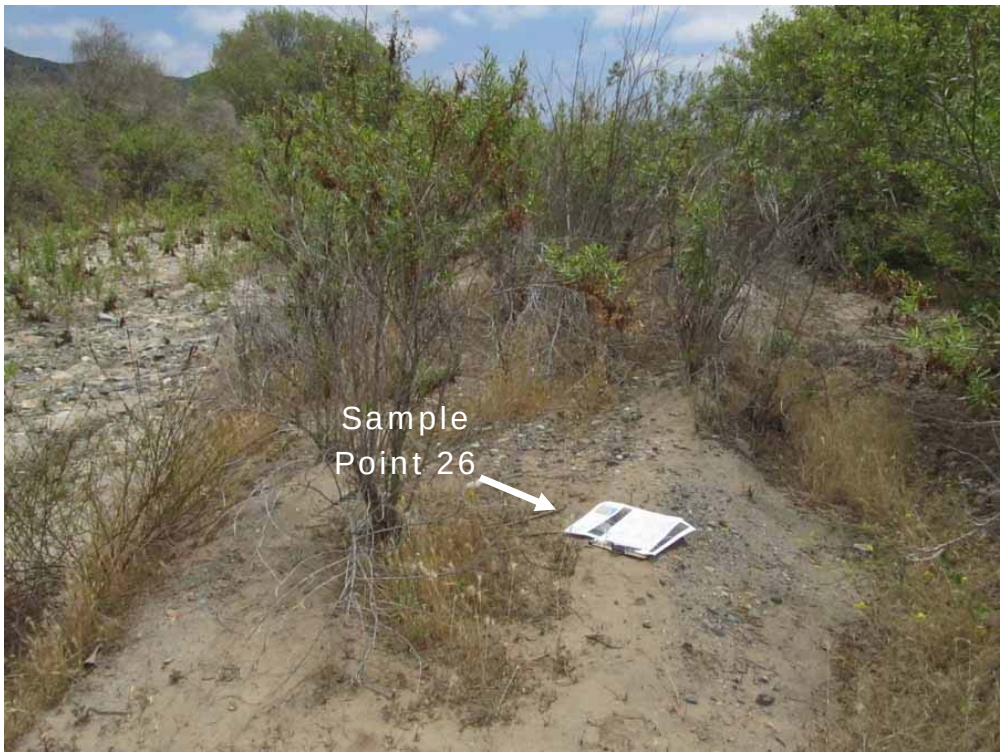
Photograph 34 (Between Poles 88 and 57, Mapbook Page 30): Feature 17, Sample Point 23. View northeast.

Photograph 35 (Southwest of SONGS Mesa Facility, Mapbook Pages 32 and 33): Non-jurisdictional concrete brow ditch south of the SONGS Mesa Facility. View west.

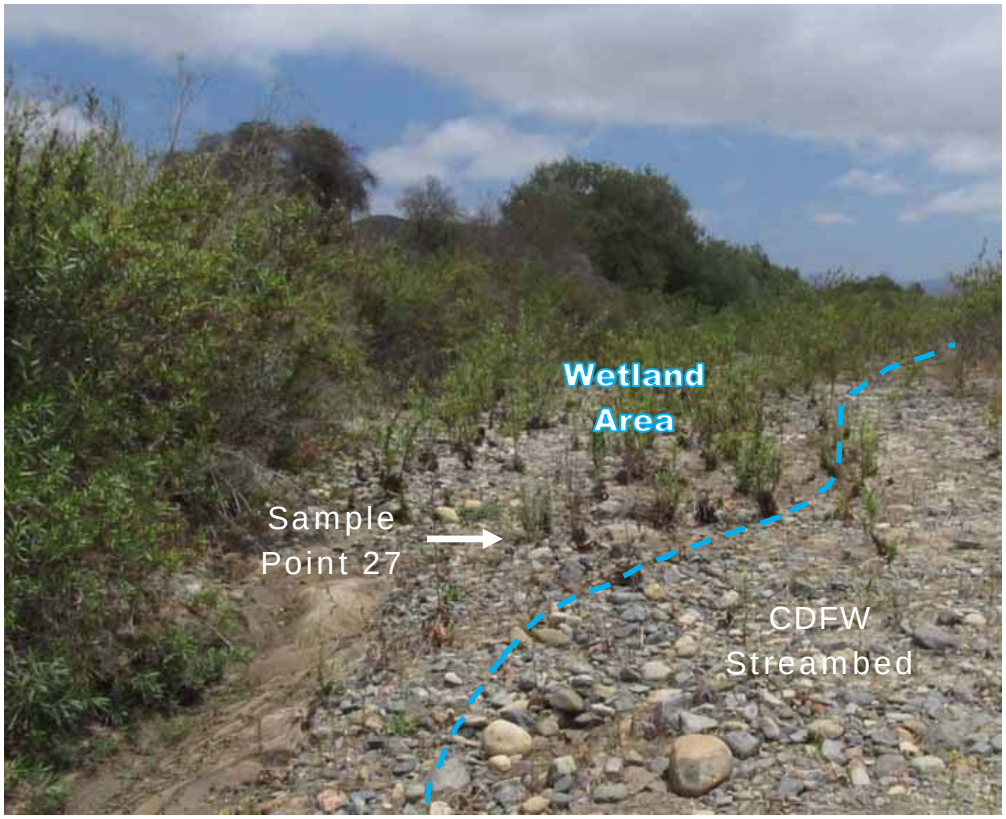
Photograph 36 (Between Poles 65 and 67, Mapbook Page 35): Feature 18, overflow basin. View east.



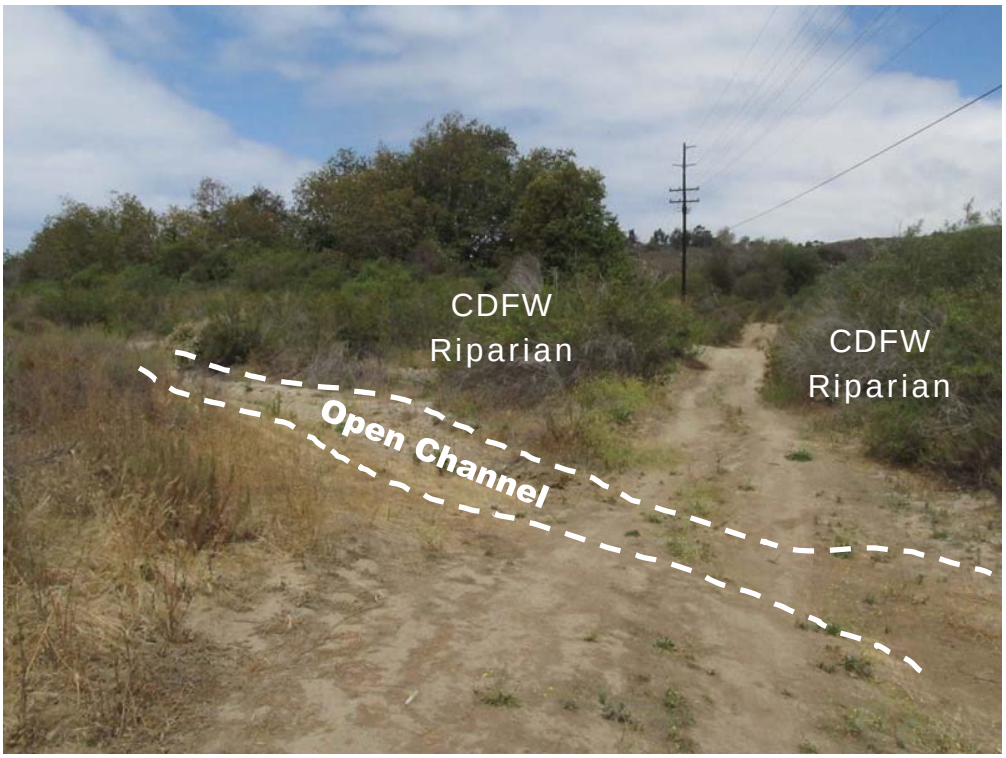
Photograph 37 (Between Poles 65 and 67, Mapbook Page 35): Feature 18, Sample Points 24 and 25. View southeast.



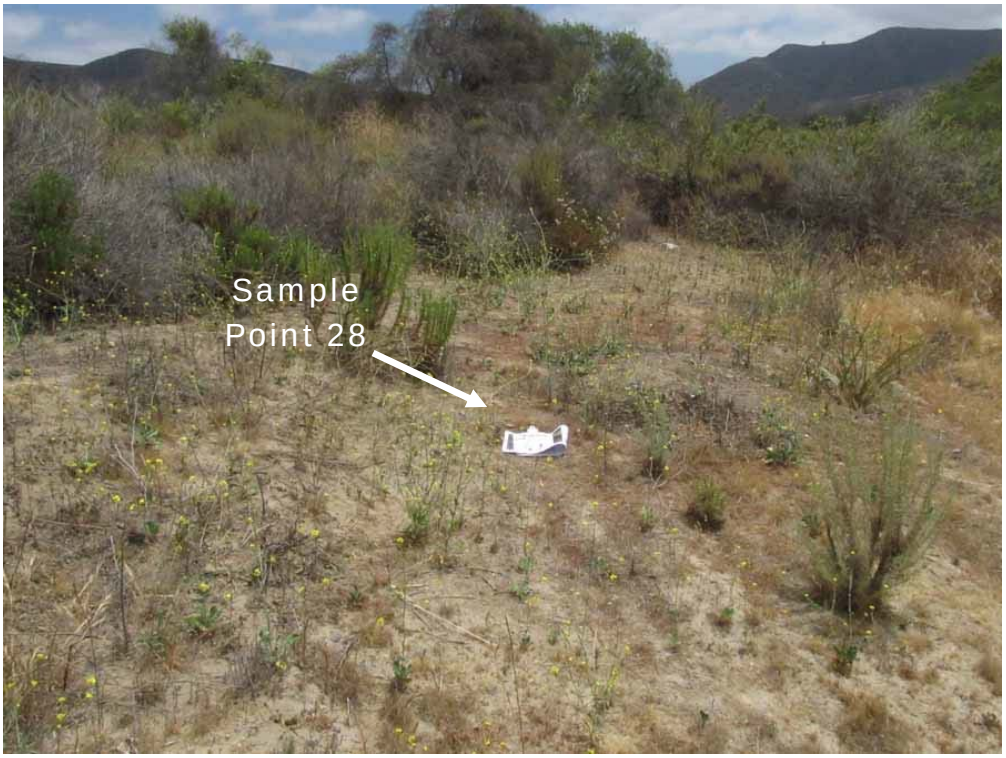
Photograph 38 (Between Poles 70 and 71, Mapbook Page 36): Feature 19, San Onofre Creek, western portion, Sample Point 26. View east.



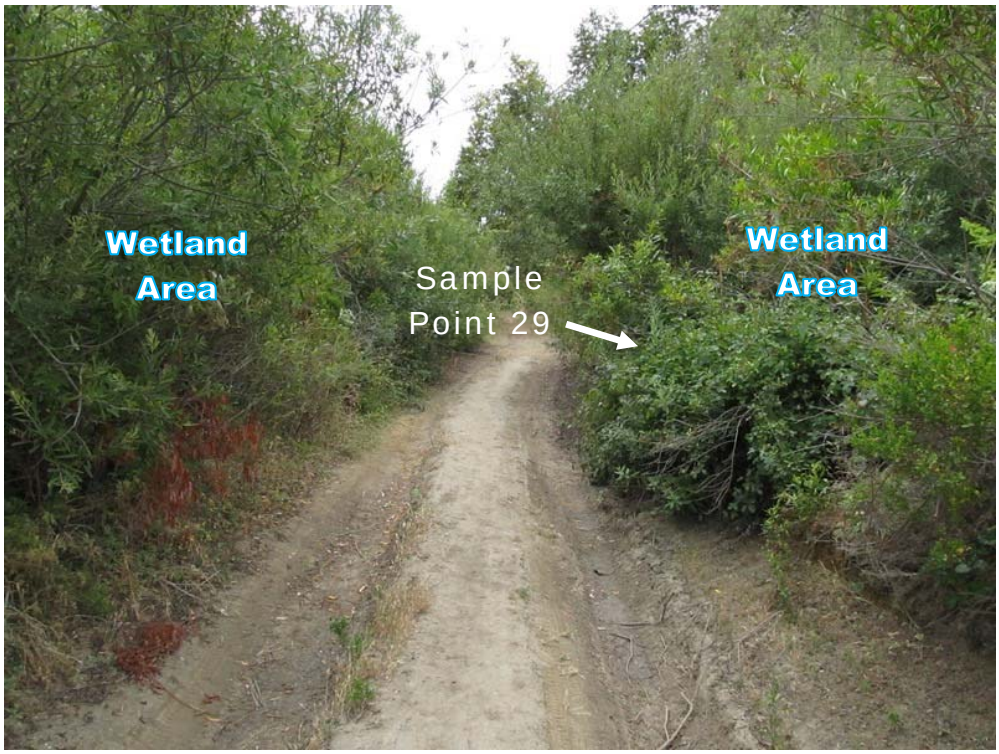
Photograph 39 (Between Poles 70 and 71, Mapbook Page 36): San Onofre Creek, Sample Point 27. View east.



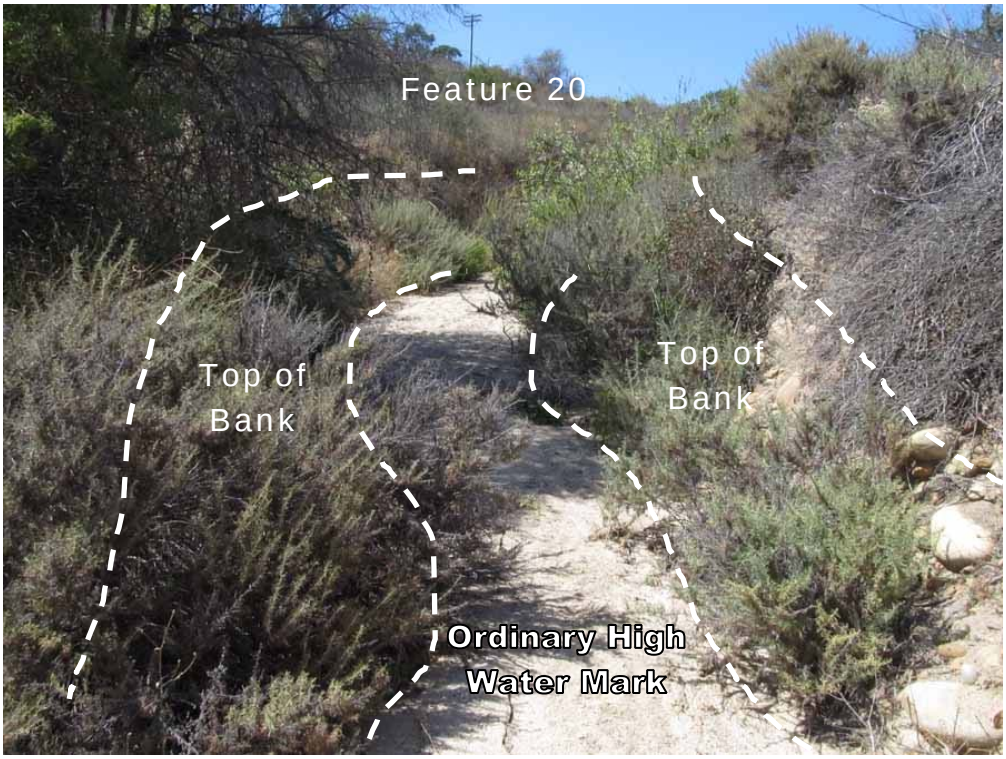
Photograph 40 (Between Poles 70 and 71, Mapbook Page 36): San Onofre Creek, access road crossing. View north.



Photograph 41 (Southeast of Pole 71, Mapbook Page 36): Sample Point 28, upland adjacent to San Onofre Creek. View northeast.



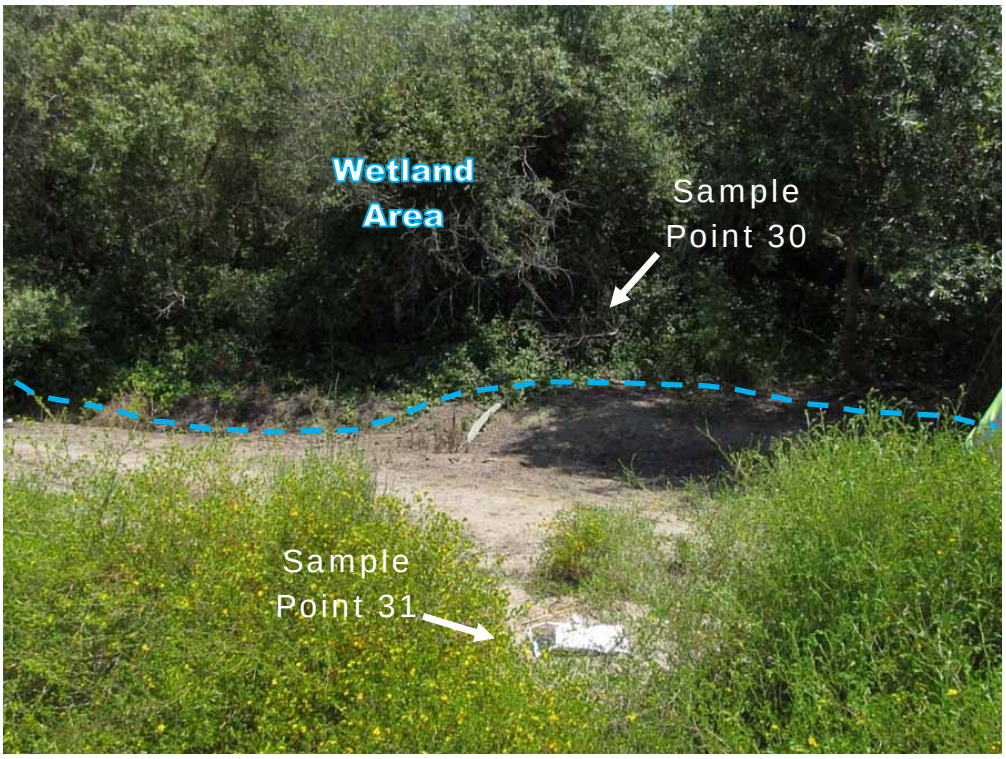
Photograph 42 (Northwest of Pole 71, Mapbook Page 36): Sample Point 29, wetland area adjacent to access road and San Onofre Creek. View north.



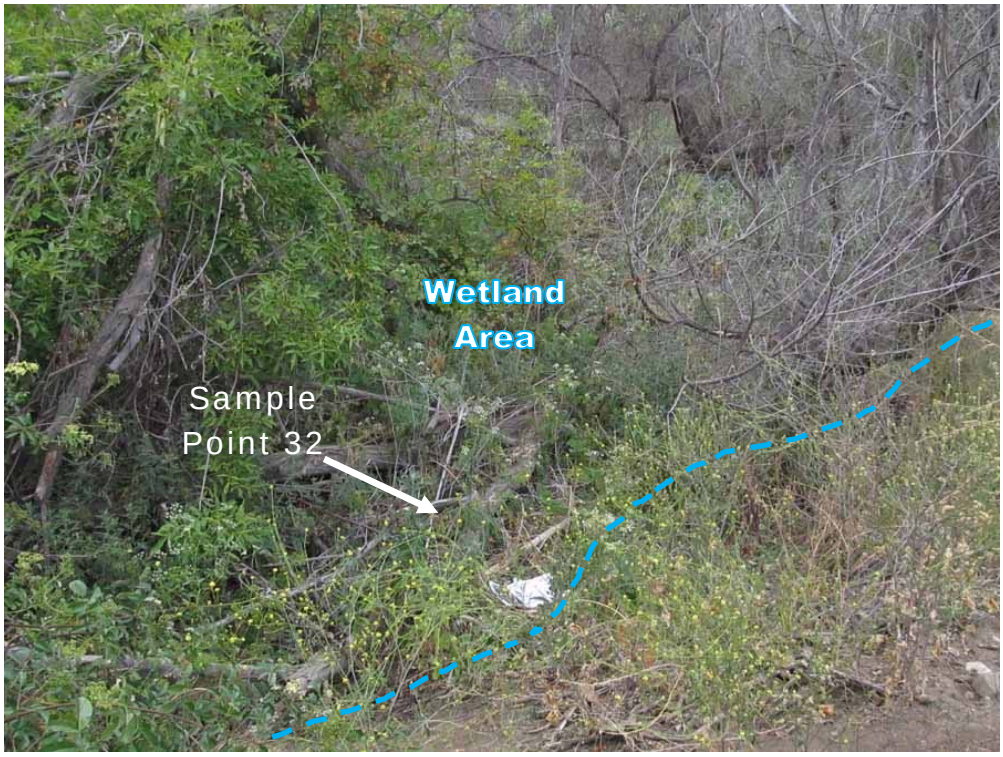
Photograph 43 (West of Pole 76, Mapbook Page 37): Feature 20, ephemeral channel. View north.

Photograph 44 (West of Pole 76, Mapbook Page 37): Feature 20 end, graded area between feature and culvert inlet. View west.

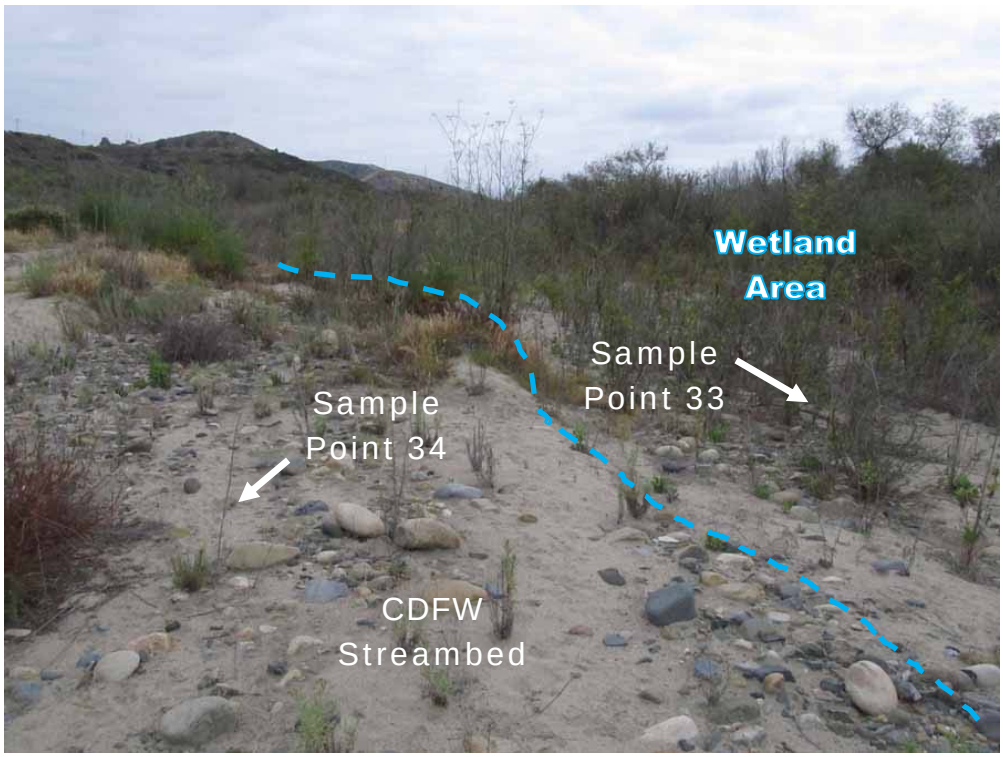
Photograph 45 (Between Poles 125 and 124, Mapbook Page 40): Feature 21 overview. View northwest.



Photograph 46 (Northwest of Pole 125, Mapbook Page 40): Sample Points 30 and 31, wetland area adjacent to access road and north of Feature 21. View south.



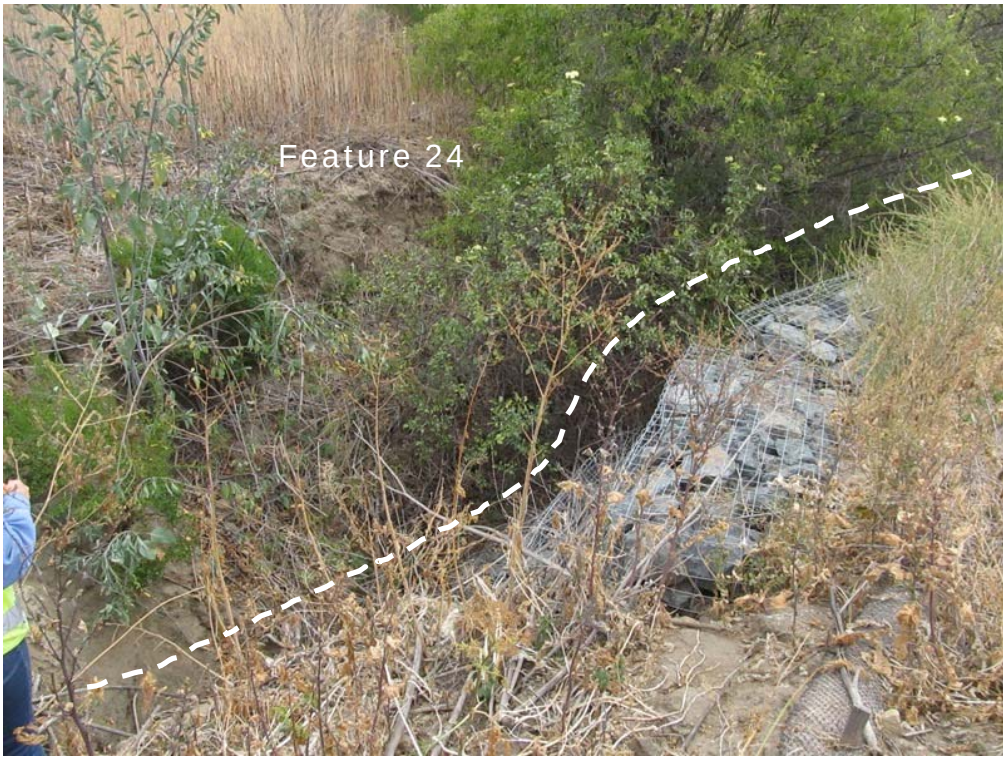
Photograph 47 (Between Poles 133 and 134, Mapbook Page 42): San Mateo Creek, western portion, Sample Point 32. View northeast.



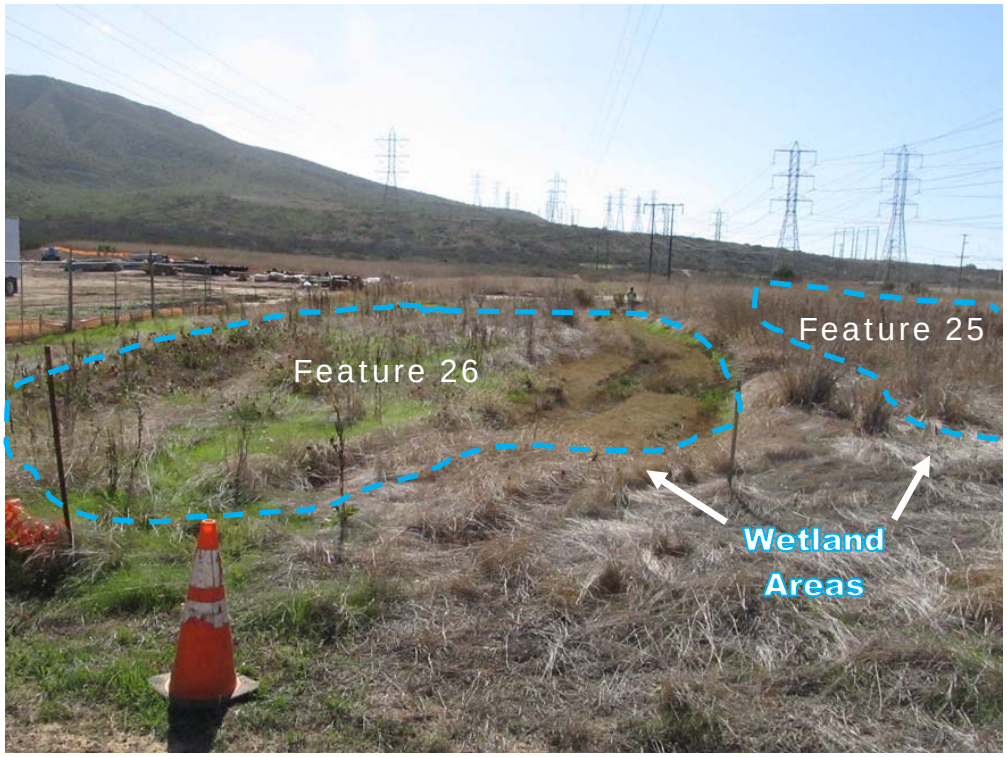
Photograph 48 (Between Poles 133 and 134, Mapbook Page 42): Feature 22, San Mateo Creek, Sample Points 33 and 34. View north.

Photograph 49 (East of Stringing Site 11, Mapbook Page 48): Feature 23, intermittent channel. View west.

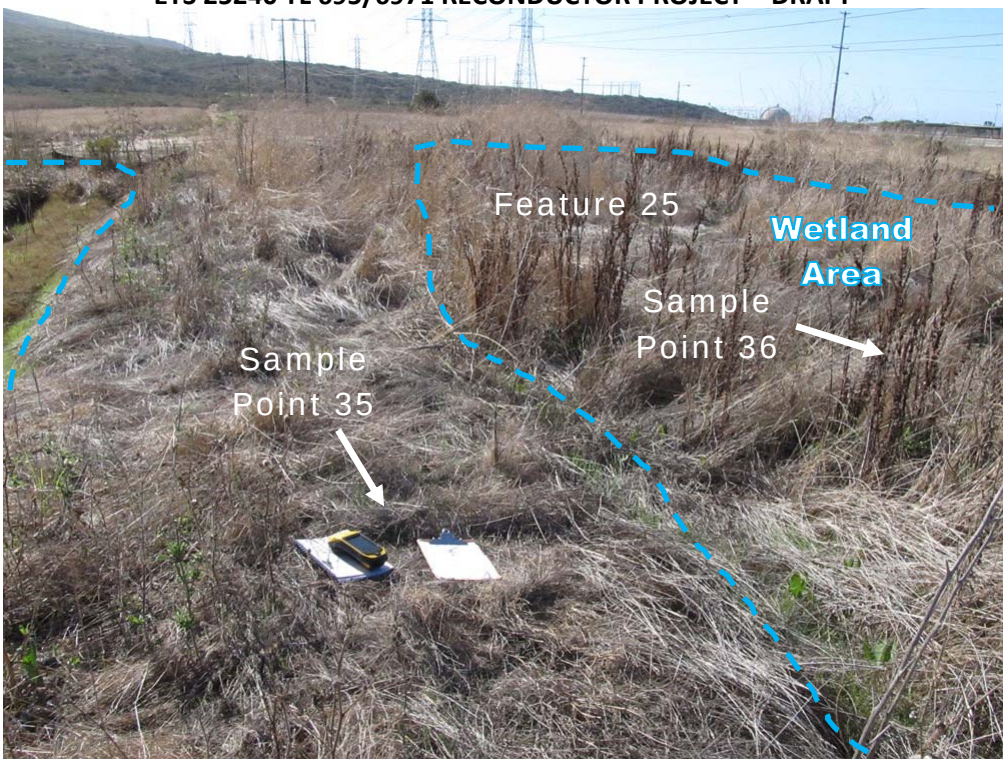
Photograph 50 (East of Stringing Site 11, Mapbook Page 48): Feature 23, adjacent riparian. View south.



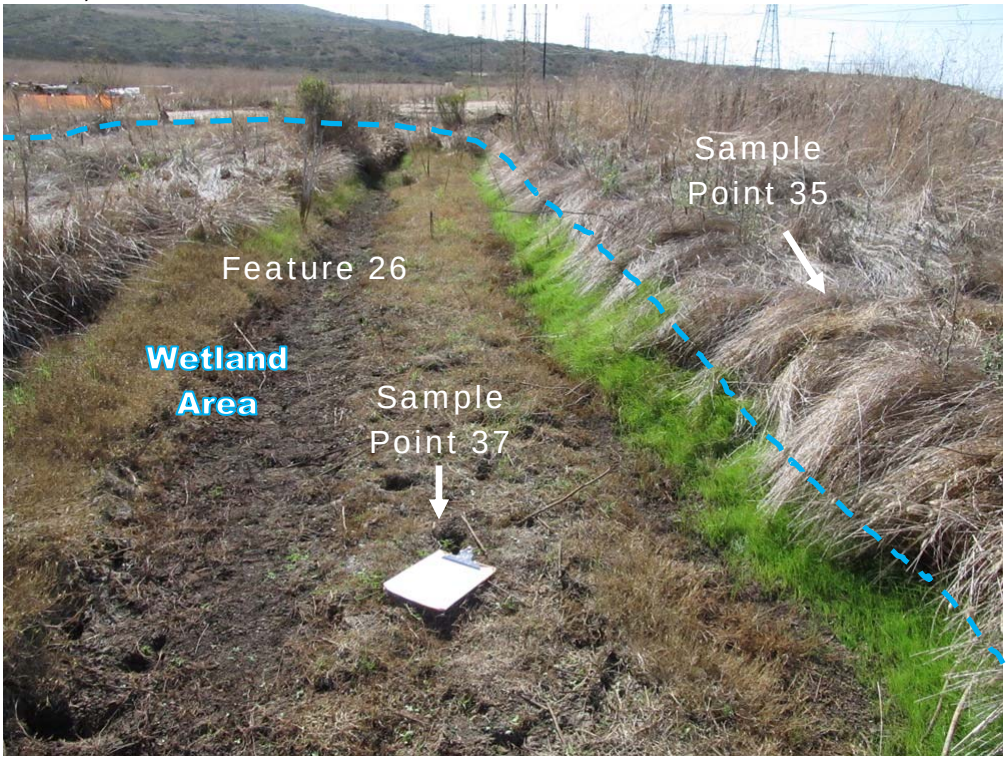
Photograph 51 (Southeast of Pole 172, Mapbook Page 49): Feature 24, ephemeral channel. View south.



Photograph 52 (South of Pole 53, Mapbook Page 30): Features 25 and 26, wetland. View south.



Photograph 53 (South of Pole 53, Mapbook Page 30): Feature 25, Sample Points 35 and 36, wetland. View south.



Photograph 54 (South of Pole 53, Mapbook Page 30): Feature 26, Sample Points 35 and 37, wetland. View south.

Appendix C – Wetland Determination Data Sheets

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: ORANGE COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-1

Investigator(s): A. BOECHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): BASIN Local relief (concave, convex, none): CONCAVE Slope (%): 0

Subregion (LRR): LRR C Lat: 33.458974 Long: -117.572347 Datum: WGS 84

Soil Map Unit Name: 134 (Calleguas clay loam) 50 to 75 % slopes NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes ____ No X

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Lolium perrene	80	Y	FAC
2. Avena fatua	30	Y	UPL
3. Picris escoides	15	N	FAC
4. Sonchus asper	1	N	FAC
5.			
6.			
7.			
8.			
	126 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	126 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

* No soil pits - Assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? **Yes** _____ **No** X

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: ORANGE COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-2

Investigator(s): A. BOECHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Sheet flow area Local relief (concave, convex, none): Depression Slope (%): 5

Subregion (LRR): LRR C Lat: 33.4595390311 Long: -117.5722875 Datum: WGS 84

Soil Map Unit Name: 134 (Calleguas clay loam | 50 to 75 %) NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

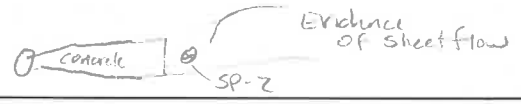
Hydrophytic Vegetation Present? Yes ____ No X

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis pilularis	40	Y	UPL
2. Baccharis salicifolia	30	Y	FACW
3. Sambucus mexicanus	10	N	FAC
4.			
5.			
	80 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Bromus diandrus	20	Y	UPL
2. Anagalis arvensis	2	N	FAC
3. Picris echioides	1	N	FAC
4.			
5.			
6.			
7.			
8.			
	23 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	103 = Total Cover		

% Bare Ground in Herb Stratum 30 % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: SP-2

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: ______

Depth (inches): ______

Hydric Soil Present? Yes X No ___

Remarks:

-No soil pits, assumed hydric

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- X Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

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

Wetland Hydrology Present? Yes X No ___

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

Remarks:

/ sheet flow / No Bed + Bank

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-3

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): 8

Subregion (LRR): LRR C Lat: 33.45351846 Long: -117.57703156 Datum: WGS 84

Soil Map Unit Name: Cieneba Sandy loam NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

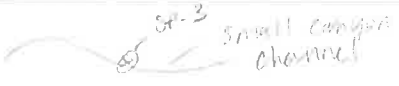
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes X No ____	

Remarks:

OHWM 2
SDSU 4



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Sambucus mexicanus	5	N	FAC
2. Baccharis pilularis	60	Y	UPL
3.			
4.			
5.			
	65 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Hirschfeldia incana	35	Y	UPL
2. Cirsium occidentalis	30	Y	UPL
3. Bromus diandrus	10	N	UPL
4.			
5.			
6.			
7.			
8.			
	75 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	140 = Total Cover		

% Bare Ground in Herb Stratum 20 % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

– No soil Pits, assumed present

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- X 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 Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-4

Investigator(s): A. BORCHER, D. HUGS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): DRAW Local relief (concave, convex, none): CONCAVE Slope (%): 5

Subregion (LRR): LRR-C Lat: 33.45257913 Long: -117.57764746 Datum: WGS 84

Soil Map Unit Name: TOSANKO CLAY, 15 TO 30% SLOPES NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes ____ No X	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis pilularis	25	Y	UPL
2.			
3.			
4.			
5.			
	25 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Hirschfeldia incana	2	N	UPL
2. Distichlis spicata	90	Y	FACW
3.			
4.			
5.			
6.			
7.			
8.			
	92 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	117 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-5

Investigator(s): A. BORELLER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): 5

Subregion (LRR): LRR C Lat: 33.45094523 Long: -117.57847348 Datum: WGS 84

Soil Map Unit Name: Calleguas clay loam NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes X No ____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Isocoma menziesii	5	N	UPL
2. Gnaphalium sp.	15	Y	NI (UNK)
3. Baccharis salicifolia	30	Y	FACW
4. Tamarisk ramosissima	10	N	FAC
5. Rhus ovata	10	N	UPL
	70 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Polypogon monospiensis	30	Y	FACW
2. Sonchus asper	10	Y	FACW
3. Ambrosia psilostachys	10	Y	FAC
4. Picris echioides	10	Y	FAC
5.			
6.			
7.			
8.			
	60 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	130 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 83 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals: (A)		(B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

- No Soil Pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes X No _____ Depth (inches): 8 inches

Water Table Present? Yes _____ No / Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No / Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 6915 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-6

Investigator(s): A. BOECHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): SLOPE Local relief (concave, convex, none): SLOPE Slope (%): 15

Subregion (LRR): LRR C Lat: 33.450817 Long: -117.578475 Datum: WGS 84

Soil Map Unit Name: Calleguas clay loam NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes ____ No X	

Remarks:

SP-6 SP-5

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Hazardia Squarrosa	10	Y	UPL
2. Gnaphalium sp.	25	Y	NT (UNK)
3.			
4.			
5.			
	35 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Hirschfeldia incana	50	Y	UPL
2. Picris escoides	30	Y	FAC
3. Ambrosia psilostachys	10	N	FACW
4. Bromus diandrus	20	N	UPL
5.			
6.			
7.			
8.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	145 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

__ Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes _____ No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-7

Investigator(s): A. BOECHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CONCAVE Slope (%): NONE

Subregion (LRR): LRR C Lat: 33.45123285 Long: -117.57364710 Datum: WGS 84

Soil Map Unit Name: Callegunas clay loam NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

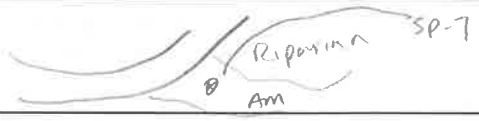
Hydrophytic Vegetation Present? Yes X No ____

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? Yes X No ____

Remarks:



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Atriplex semibaccata	40	Y	FAC
2.			
3.			
4.			
5.			
	40 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Spergularia macrotheca	30	Y	FAC
2. Cotula coronopifolia	30	Y	FAC
3. Distichlis spicata	40	Y	FACW
4.			
5.			
6.			
7.			
8.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	140 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

- no pits, assumed present

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- X 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 Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No √ Depth (inches): _____

Water Table Present? Yes _____ No √ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No √ Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

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

Remarks:

- Depression adjacent to riparian

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-3

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): SLOPE Local relief (concave, convex, none): SLOPE Slope (%): 10

Subregion (LRR): LRRC Lat: 33.45127990 Long: -117.57865183 Datum: WGS 84

Soil Map Unit Name: Calleguas clay loam NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

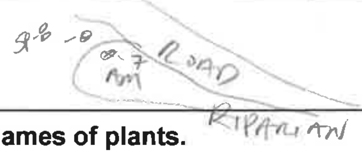
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes ____ No X	

Remarks:



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
= Total Cover			
Sapling/Shrub Stratum (Plot size: ____)			
1. Atriplex semibaccata	15	Y	FAC
2. Isocoma menziesii	5	Y	UPL
3.			
4.			
5.			
= Total Cover	20		
Herb Stratum (Plot size: ____)			
1. Bromus diandrus	45	Y	UPL
2. Avena fatua	15	Y	UPL
3. Hirschfeldia incana	10	N	UPL
4.			
5.			
6.			
7.			
8.			
= Total Cover	70		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
= Total Cover	90		

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%
__ Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No _____

Remarks:

– No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-9

Investigator(s): A. BORTHER, D. HESS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): 10

Subregion (LRR): LRR C Lat: 33.44744902 Long: -117.57895728 Datum: WGS 84

Soil Map Unit Name: BOSANKO CLAY NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:

@SP-9

2/6

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis pilularis	15	Y	UPL
2. Cortaderia selloana	40	Y	FACU
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: ____)			
1. Picris echioides	<1	N	FAC
2. Bromus diandrus	<2	N	UPL
3.			
4.			
5.			
6.			
7.			
8.			
	58 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	58 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

-No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes X No _____ Depth (inches): 2 inches

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-10

Investigator(s): A. BOREHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): 5

Subregion (LRR): LRR C Lat: 33.44479402 Long: -117.57882883 Datum: WGS 84

Soil Map Unit Name: TERRACE ESCARPMENTS NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X No ____

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? Yes X No ____

Remarks:

SP-10 – D – CHAN

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix lasiolepsis	10	Y	FACW
2.			
3.			
4.			
	10 = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis salicifolia	15	Y	FACW
2. Cortaderia selloana	5	Y	FACW
3.			
4.			
5.			
	20 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Ambrosia psilostachys	40	Y	FACW
2. Lolium perenne	10	N	FAC
3. Picris echioides	5	N	FAC
4. Medicago polymorpha	1	N	UPL
5. Melilotus indica	2	N	FAC
6.			
7.			
8.			
	58 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = Total Cover		

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

- no soil pits, assumed present

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-11

Investigator(s): A. BOHLTER, D. INNES Section, Township, Range: NA

Landform (hillslope, terrace, etc.): SLOPE ABOVE CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): 15

Subregion (LRR): LRR C Lat: 33.44477947 Long: -117.57881762 Datum: WGS 84

Soil Map Unit Name: TERRACE ESCARPMENTS NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation ~, Soil ~, or Hydrology ~ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ~, Soil ~, or Hydrology ~ naturally problematic? (If needed, explain any answers in Remarks.)

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

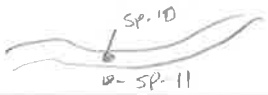
Hydrophytic Vegetation Present? Yes ____ No X

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes ____ No X

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:



VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis pilularis	10	Y	UPL
2.			
3.			
4.			
5.			
	10 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Lolium perrene	10	Y	FAC
2. Bromus diandrus	30	Y	UPL
3. Distichlis spicata	5	N	FACW
4. Melilotus indica	2	N	UPL
5.			
6.			
7.			
8.			
	47 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	~~57~~ = Total Cover		

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

– No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? **Yes** _____ **No** X

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

Remarks:

Slope above channel

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO Sampling Date: 6/2/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-12

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): CONCAVE Slope (%): 5

Subregion (LRR): LRR C Lat: 33.42016997 Long: -117.5818639 Datum: WGS 84

Soil Map Unit Name: ALO CLAY NWI classification: FRSH WTR FOREST

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

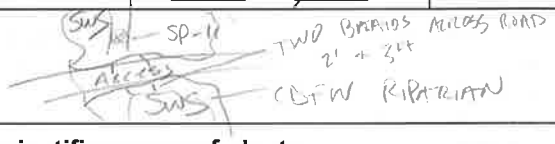
Hydrophytic Vegetation Present? Yes ____ No X

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes ____ No X

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Salix lasiolepis	60	Y	FACW
2. Toxicodendron diversilobum	40	Y	UPL
3.			
4.			
5.			
	100 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Bromus diandrus	25	Y	UPL
2. Conium maculatum	10	Y	FACW
3. Avena fatua	3	N	UPL
4.			
5.			
6.			
7.			
8.			
	38 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	138 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

- No soil pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes X No _____

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

Remarks:

- Weak indicator

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TLSRP City/County: SAN DIEGO Sampling Date: 6/2/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-13

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): concave Slope (%): 2

Subregion (LRR): LRR C Lat: 33.411555852 Long: -117.5952042 Datum: WGS84

Soil Map Unit Name: Riverwash NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X No ____

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? Yes X No ____

Remarks:

LOW SLOPE (SAN MATEO SP-13)

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix lasiandra	15	Y	FACW
2.			
3.			
4.			
	15 = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis salicifolia	20	Y	FAC
2.			
3.			
4.			
5.			
	20 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Xanthium strumarium	25	Y	FAC+
2. Conium maculatum	5	N	FACW
3. Cyperus esculentus	10	Y	FACW
4.			
5.			
6.			
7.			
8.			
	40 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

- No pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- X Surface Soil Cracks (B6)
- X Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No / Depth (inches): _____

Water Table Present? Yes _____ No / Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No / Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO CITY Sampling Date: 6-2-15
Applicant/Owner: SDGE State: CA Sampling Point: SP-14
Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA
Landform (hillslope, terrace, etc.): CHANNEL BENCH Local relief (concave, convex, none): CONCAVE Slope (%): 3
Subregion (LRR): LRRC Lat: 33.4115991B Long: -117.5794438q Datum: WGS84
Soil Map Unit Name: TERRACE ESCARPMENTS NWI classification: RIVERINE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation N, Soil N, or Hydrology N 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 X
Hydric Soil Present? Yes X No ____
Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis salicifolia	20	Y	FACW
2. Lotus scoparius	2	N	UPL
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Gnaphalium californica	15	Y	UPL
2. Hirschfeldia incana	15	Y	UPL
3. Heterotheca grandiflora	2	N	UPL
4. Gnaphalium bicolor	1	N	UPL
5.			
6.			
7.			
8.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
__ Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

– No pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- X Surface Soil Cracks (B6)
- X Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No / Depth (inches): _____

Water Table Present? Yes _____ No / Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No / Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/2/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-15

Investigator(s): A. BOECHER D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): concave Slope (%): 1

Subregion (LRR): LRR C Lat: 33.41729 Long: -117.57927 Datum: WGS 84

Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X No ____

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? Yes X No ____

Remarks:

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis salicifolia	50	Y	FACW
2. Rumex salicifolius	5	Y	FACW
3.			
4.			
5.			
	55 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Hirschfeldia incana	<1	NA	UPL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	/ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	55 = Total Cover		

% Bare Ground in Herb Stratum 50 % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

No pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- X Surface Soil Cracks (B6)
- X Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO CNTY Sampling Date: 6/2/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-16

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): _____ Slope (%): 2

Subregion (LRR): LRR C Lat: 33.41252719 Long: -117.57927134 Datum: WGS 84

Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation N, Soil N, or Hydrology N 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 X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

GRADING @ SP-16 LOWER

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. Encelia farinosa	15	Y	UPL
2.			
3.			
4.			
5.			
	15 = Total Cover		
Herb Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	15 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 75 % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

- no soil pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- X Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No / Depth (inches): /

Water Table Present? Yes _____ No / Depth (inches): /

Saturation Present? (includes capillary fringe) Yes _____ No / Depth (inches): /

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO CNTY Sampling Date: 6/2/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-17

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): BENCH Local relief (concave, convex, none): CONCAVE Slope (%): 3

Subregion (LRR): LRR C Lat: 33.41240076 Long: -117.57454790 Datum: WGS84

Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X No ____

Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? Yes ____ No ____

Remarks: @ SP-17 @ SP-16 SAN RITO

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Eriogonum fasciculatum	5	N	UPL
2. Artemisia californica	5	N	UPL
3. Baccharis salicifolia	30	Y	FACW
4. Lotus scoparius	3	N	UPL
5.			
	= Total Cover		
Herb Stratum (Plot size: ____)			
1. Hirschfeldia incana	40	Y	UPL
2. Ambrosia psilostachys	10	Y	FACW
3. Artemesia douglasiana	2	N	FACW
4.			
5.			
6.			
7.			
8.			
	95 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	95 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

No Soil

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- X Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6-4-15

Applicant/Owner: SDGE State: CA Sampling Point: SP-18

Investigator(s): A. BOECHER, D. HUSS Section, Township, Range: N/A

Landform (hillslope, terrace, etc.): BENCH Local relief (concave, convex, none): NONE Slope (%): _____

Subregion (LRR): LRR C Lat: 33.41174754 Long: -117.57380187 Datum: WGS 84

Soil Map Unit Name: RIVERWASH NWI classification: FRESH WATER FORESTED

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation N, Soil N, or Hydrology N 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 X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes _____ No X	

Remarks:

ESTIMATED BENCH SP-8

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. Baccharis salicifolia	25	Y	FACW
2. Artemisia californica	30	Y	UPL
3.			
4.			
5.			
	55 = Total Cover		
Herb Stratum (Plot size: _____)			
1. Bromus madritensis	5	Y	UPL
2. Hirschfeldia incana	2	N	UPL
3.			
4.			
5.			
6.			
7.			
8.			
	7 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	0 = Total Cover		

% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

- No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? **Yes** _____ **No** X

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6-4-15

Applicant/Owner: SDGE State: CA Sampling Point: SP-19

Investigator(s): A. BORGSTEDT, D. HYDE Section, Township, Range: NA

Landform (hillslope, terrace, etc.): DEPRESSION IN BENCH Local relief (concave, convex, none): CONCAVE Slope (%): _____

Subregion (LRR): LRR C Lat: 33.411272OS Long: -117.57871468 Datum: WGS84

Soil Map Unit Name: RIVERWASH NWI classification: FRSH WTR FORESTED

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)

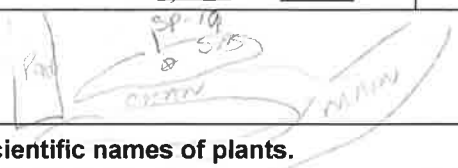
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation N, Soil N, or Hydrology N 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 X No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:



VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: _____)			
1. Salix lasiolepis	30	Y	FACW
2.			
3.			
4.			
	30 = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. Baccharis salicifolia	40	Y	FACW
2. Opuntia littoralis	5	N	UPL
3.			
4.			
5.			
	45 = Total Cover		
Herb Stratum (Plot size: _____)			
1. Hirschfeldia incana	30	Y	UPL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	30 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	105 = Total Cover		

% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals: (A)		(B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

- no pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO CNTY Sampling Date: 6/4/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-20

Investigator(s): A. BOECHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Channel bench Local relief (concave, convex, none): NONE Slope (%): 1

Subregion (LRR): LRR C Lat: 33, 38494337 Long: -117.55825259 Datum: WGS84

Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes X No ____	

Remarks:

SAN ONOFRE SP 20 Island bench

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis salicifolia	15	Y	FACW
2.			
3.			
4.			
5.			
	15 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Gnaphalium bicolor	15	Y	UPL
2. Bromus madritensis	15	Y	UPL
3. Erodium botrys	2	N	UPL
4. Foliago gallica	4	N	UPL
5. Melilotus alba	1	N	UPL
6. Bromus diandrus	1	N	UPL
7.			
8.			
	38 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	63 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

– No soil pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- X 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 Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/4/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-21

Investigator(s): A. BURKETT, D. IRVIS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): Concave Slope (%): 21

Subregion (LRR): LRR C Lat: 33.38503161 Long: -117.55830296 Datum: WGS

Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X

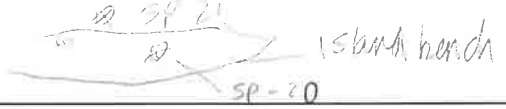
Hydric Soil Present? Yes X No ____

Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:

SAN ONOFRE



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis salicifolia	5	Y	FACW
2. Ambrosia psilostachys	<1	N	FACW
3. Foeniculum vulgare	1	N	FACU
4.			
5.			
	6 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Brachyfeldia incana	20	Y	UPL
2. Gnaphalium bicolor	2	N	UPL
3. Melilotus alba	<1	N	UPL
4.			
5.			
6.			
7.			
8.			
	22 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species ____	x 1 =	____
FACW species ____	x 2 =	____
FAC species ____	x 3 =	____
FACU species ____	x 4 =	____
UPL species ____	x 5 =	____
Column Totals: ____ (A)		____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No _____

Remarks:

No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes ✓ No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-22

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): 0

Subregion (LRR): LRR C Lat: 33.38147487 Long: -117.5589710 Datum: WGS84

Soil Map Unit Name: DIABLO CLAY NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, 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 X	**Is the Sampled Area within a Wetland?** Yes ____ No ____
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes X No ____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Sambucus mexicanus	30	Y	FAC
2. Baccharis salicifolia	15	N	FACW
3. Malosma laurina	50	Y	UPL
4. STIPA Coronata	15	N	UPL
5. Baccharis pilularis	5	N	UPL
	115 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Hirschfeldia incana	15	Y	UPL
2. Anagallis arvensis	2	N	FAC
3.			
4.			
5.			
6.			
7.			
8.			
	17 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	132 = Total Cover		

% Bare Ground in Herb Stratum 15 % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

- No soil pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

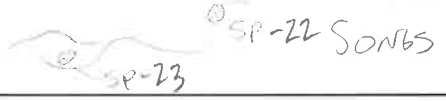
Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15
Applicant/Owner: SDGE State: CA Sampling Point: SP-23
Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA
Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): _____
Subregion (LRR): LRR C Lat: 33.3517° 62 Long: -117.5523 0700 Datum: WGS 84
Soil Map Unit Name: DIABLO CLAY NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation N, Soil N, or Hydrology N 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 X No _____
Hydric Soil Present? Yes X No _____
Wetland Hydrology Present? Yes X No _____

Is the Sampled Area within a Wetland? Yes X No _____

Remarks:



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Platanus racemosa	50	Y	FACW
2. Salix lasiolepis	50	Y	FACW
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. Malosma laurina	15	Y	UPL
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: _____)			
1. Amsinckia arvensis	<1	N	FAC
2. Cyperus esculentus	<1	N	FACW
3.			
4.			
5.			
6.			
7.			
8.			
	= Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum 30 % Cover of Biotic Crust _____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

- No pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- X Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15

Applicant/Owner: A. BORCHER, D. HUSS State: CA Sampling Point: SP-24

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): BASIN Local relief (concave, convex, none): CONCAVE Slope (%): 0

Subregion (LRR): LRR C Lat: 33.380516° Long: -117.564375° Datum: WGS1

Soil Map Unit Name: Visalia sandy NWI classification: EM6 WET

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes X No ____	

Remarks:

Det Basin SP 24

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Xanthium strumarium	42	N	FAC
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Cyperus esculentus	25	Y	FACW
2. Lolium perenne	10	N	FAC
3. Lythrum hyssopifolia	5	N	FACW
4. Plantago lanceolata	10	N	FAC-
5. Rumex sp. (too early to key)	30	Y	IND
6.			
7.			
8.			
	80 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum 15 % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

– no soil pits, assumed

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**)
- X 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 Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15
Applicant/Owner: SDGE State: CA Sampling Point: SP-25
Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: N/A
Landform (hillslope, terrace, etc.): SLOPE Local relief (concave, convex, none): SLOPE Slope (%): 10
Subregion (LRR): LRR C Lat: 33.380541338 Long: -117.56145092 Datum: WGS84
Soil Map Unit Name: VISALIA SANDY NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation N, Soil N, or Hydrology N 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 X
Hydric Soil Present? Yes X No ____
Wetland Hydrology Present? Yes ____ No X
Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:
SP-25 SP-24 Det Basin

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Eriogonum fasciculata	5	Y	UPL
2. Baccharis salicifolia	5	Y	FACW
3.			
4.			
5.			
	10 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Bromus madritensis	5	Y	UPL
2. Bromus diandrus	15	Y	UPL
3. Avena fatua	5	Y	UPL
4. Plantain lanceolata	2	N	FAC-
5.			
6.			
7.			
8.			
	27 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	37 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 20 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
__ Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ✓ **No** _____

Remarks:

— No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? **Yes** _____ **No** ✓

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 645 City/County: SAN DIEGO CNTY Sampling Date: 6/3/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-26

Investigator(s): A. BARKER, D. IRVIS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): BENCH Local relief (concave, convex, none): NONE Slope (%): 5

Subregion (LRR): LRR C Lat: 33.3533404 Long: -117.5671784 Datum: WGS 84

Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No Y (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X

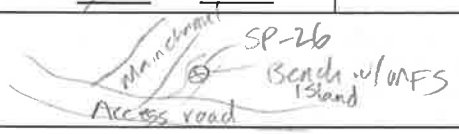
Hydric Soil Present? Yes ____ No ____

Wetland Hydrology Present? Yes ____ No ____

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:

SAN ONOFRE



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis salicifolia	60	Y	FACW
2. Lotus scoparius	5	N	UPL
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Bromus madritensis	40	Y	UPL
2. Hirschfeldia incana	2	N	
3.			
4.			
5.			
6.			
7.			
8.			
	42 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	107 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species ____	x 1 =	____
FACW species ____	x 2 =	____
FAC species ____	x 3 =	____
FACU species ____	x 4 =	____
UPL species ____	x 5 =	____
Column Totals: ____ (A)		____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

- No soil pits, assumed

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**)
- X 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 Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-27

Investigator(s): A. BOECHER, O. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): _____

Subregion (LRR): LRRC Lat: 33.38356220 Long: -117.56921876 Datum: WGS 84

Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation N, Soil N, or Hydrology N 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 X No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

SAN ONOFRE

MAIN CHANNEL SP-27

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. Baccharis salicifolia	30	Y	FACW
2. Artemesia californica	2	N	UPL
3.			
4.			
5.			
	32 = Total Cover		
Herb Stratum (Plot size: _____)			
1. Gnaphalium bicolor	21	N	UPL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	_____ = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	32 = Total Cover		

% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

– No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No / Depth (inches): _____

Water Table Present? Yes _____ No / Depth (inches): _____

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

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO CNTY Sampling Date: 6/3/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-20

Investigator(s): A. BORCHARD, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): BENCH Local relief (concave, convex, none): SLOPE Slope (%): 3

Subregion (LRR): LRR C Lat: 33.383667 05 Long: -117.5[illegible]9353 Datum: WGS 84

Soil Map Unit Name: RIVERWASH NWI classification: FRSH WTR FORMED

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

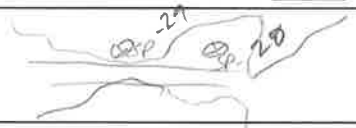
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Isocoma menziesii	5	Y	UPL
2. Artemisia californica	5	Y	UPL
3. Eriogonum fasciculatum	2	N	UPL
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Hirschfeldia incana	30	Y	UPL
2. Bromus madritensis	2	N	UPL
3. Filago gallica	5	N	UPL
4. Stephanomeria virgata	<1	N	FACU
5.			
6.			
7.			
8.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species ____	x 1 =	____
FACW species ____	x 2 =	____
FAC species ____	x 3 =	____
FACU species ____	x 4 =	____
UPL species ____	x 5 =	____
Column Totals: ____ (A)		____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15
Applicant/Owner: SDGE State: CA Sampling Point: SP-29
Investigator(s): A. BOECHER, D. HUSS Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CONCAVE Slope (%): 2
Subregion (LRR): LRRC Lat: 33.38398151 Long: -117.57008102 Datum: WGS 84
Soil Map Unit Name: Visalia Sandy NWI classification: FRSH WTR FOREST

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation N, Soil N, or Hydrology N 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 X No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes X No ____	

Remarks: SAN ONOFRE (RIP @ SP-29 RIP Access Road, no channel)

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix lasiolepis	80	Y	FACW
2.			
3.			
4.			
	80 = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Conium maculatum	30	Y	FACW
2. Hirschfeldia incana	2	N	UPL
3. Artemisia douglasiana	35	Y	FACW
4.			
5.			
6.			
7.			
8.			
	67 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	147 = Total Cover		

% Bare Ground in Herb Stratum 10 % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
__ Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** _____

Remarks:

No pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? **Yes** ✓ **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO Sampling Date: 6-4-15
Applicant/Owner: SDGE State: CA Sampling Point: SP-30
Investigator(s): A. BORCHER Section, Township, Range: NA
Landform (hillslope, terrace, etc.): REMNANT Local relief (concave, convex, none): CONCAVE Slope (%): 1
Subregion (LRR): LRR C Lat: 33.38993323 Long: -117.55461073 Datum: WGS84
Soil Map Unit Name: Salinas clay NWI classification: FRS WTR FOREST
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation N, Soil N, or Hydrology N 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 X No ____
Hydric Soil Present? Yes X No ____
Wetland Hydrology Present? Yes X No ____
Is the Sampled Area within a Wetland? Yes X No ____

Remarks:
"JUNGLE" @ SP-30 – Dense riparian

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: ____)			
1. Salix lasiandra	80	Y	FAC
2.			
3.			
4.			
	80 = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Toxicodendron diversilobum	40	Y	UPL
2.			
3.			
4.			
5.			
	40 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Conium maculatum	30	Y	FACW
2. Picris echioides	10	Y	FAC
3. Sonchus asp	3	N	FAC
4.			
5.			
6.			
7.			
8.			
	43 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	123 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
__ Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

No soil pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO CNTY Sampling Date: 6/4/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-31

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): ROAD Local relief (concave, convex, none): NONE Slope (%): 0

Subregion (LRR): LRR C Lat: 33,39001221 Long: -117.58461553 Datum: NGB 84

Soil Map Unit Name: Salinas Clay NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes X No ____	

Remarks:

SP-31 ⊗ JURISDICTIONAL SP-30

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Dencrumbia fasciculata	30	Y	UPL
2. Elymus trachycaulus	2	N	UPL
3.			
4.			
5.			
	32 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Conyza canadensis	2	N	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	2 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	34 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

No soil pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO CNTY Sampling Date: 6/5/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-32

Investigator(s): A. BORCHER, D. ITUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): channel bench Local relief (concave, convex, none): concave Slope (%): NONE

Subregion (LRR): LRR C Lat: 33.31539907 Long: -117.58849074 Datum: WGS 84

Soil Map Unit Name: TUJUNGA SAND NWI classification: FRS WTR FOR

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks: SAT MATED SOIL @ SP-32

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Sambucus mexicanus	15	Y	FAC
2. Juglans californica	30	Y	FAC
3.			
4.			
	45 = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Artemisia douglasiana	5	Y	FACW
2.			
3.			
4.			
5.			
	5 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Conium maculatum	40	Y	FACW
2. Ambrosia psilostachys	30	Y	FACW
3. Bromus diandrus	2	N	UPL
4.			
5.			
6.			
7.			
8.			
	72 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals: (A)		(B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** _____

Remarks:

No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No ☒ Depth (inches): _____

Water Table Present? Yes _____ No ☒ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ☒ Depth (inches): _____

Wetland Hydrology Present? **Yes** ☒ **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/5/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-33

Investigator(s): A. BOECHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): 1

Subregion (LRR): LRR C Lat: 33.3983296 Long: -117.5892263 Datum: WGS 84

Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 ____	**Is the Sampled Area within a Wetland?** Yes ____ No ____
Hydric Soil Present?	Yes ____ No ____	
Wetland Hydrology Present?	Yes ____ No ____	

Remarks:
SAN MATEO
SP-33 @ CHANNEL BENCH

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix lasiolepis	25	Y	FACW
2.			
3.			
4.			
	25 = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Baccharis salicifolia	50	Y	FACW
2.			
3.			
4.			
5.			
	50 = Total Cover		
Herb Stratum (Plot size: ____)			
1. Helianthus grandiflorus	5	Y	UPL
2. Conyza bonariensis	2	N	UPL
3.			
4.			
5.			
6.			
7.			
8.			
	7 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	0 = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species ____	x 1 =	____
FACW species ____	x 2 =	____
FAC species ____	x 3 =	____
FACU species ____	x 4 =	____
UPL species ____	x 5 =	____
Column Totals: ____ (A)		____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

No soil pits, assumed

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**)
- X Sediment Deposits (B2) (**Nonriverine**)
- X Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/5/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-34

Investigator(s): M. BORCHER, D. HUSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Bench Local relief (concave, convex, none): NONE Slope (%): 1

Subregion (LRR): LRR C Lat: 33.395827241 Long: -117.589787711 Datum: WGS 84

Soil Map Unit Name: RIVERWASH NWI classification: FRSH WTR FOR

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

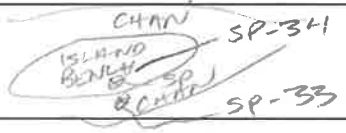
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____ No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes X No ____	

Remarks:

SAN MATEO



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Artemisia californica	1	N	UPL
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Gnaphalium bicolor	15	Y	UPL
2. Heterotheca grandiflora	2	N	UPL
3. Bromus diandrus	2	N	UPL
4.			
5.			
6.			
7.			
8.			
	20 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species ____	x 1 =	____
FACW species ____	x 2 =	____
FAC species ____	x 3 =	____
FACU species ____	x 4 =	____
UPL species ____	x 5 =	____
Column Totals: ____ (A)		____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** _____

Remarks:

No soil pits, assumed

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

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

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: CP/SD Sampling Date: 10/2/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-35

Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: N/A

Landform (hillslope, terrace, etc.): DEPRESSION Local relief (concave, convex, none): Convex Slope (%): 0

Subregion (LRR): LRR C Lat: 33.337051°N Long: 117.555314° Datum: WGS 84

Soil Map Unit Name: DIABLO CLAY NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

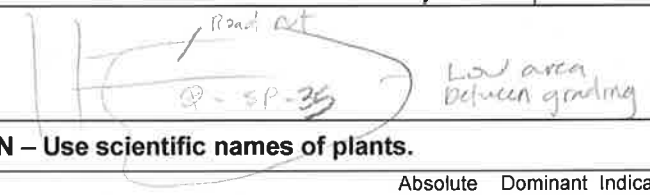
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____ No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes ____ No X	

Remarks:



VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. Rumex crispus	10	Y	FAC
2. Toxicodendron diversilobum	1	N	NI
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Bromus diandrus	15	Y	NI
2. Picris echioides	20	Y	FACU
3. Brassica nigra	15	Y	NI
4. Polypogon monspeliensis	5	N	FACW
5.			
6.			
7.			
8.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No ____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

* No soil pits excavated due to potential cultural resources

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

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

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

NONE, on berm in between seasonally flooded depressions

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: CP / SD Sampling Date: 10/2/15

Applicant/Owner: SDGE State: CA Sampling Point: SP-36

Investigator(s): A. BORCHER, D. IHSS Section, Township, Range: NA

Landform (hillslope, terrace, etc.): DEPRESSION Local relief (concave, convex, none): _____ Slope (%): 0

Subregion (LRR): LRR C Lat: 33.39202563 Long: -117.565537253 Datum: WGS84

Soil Map Unit Name: DIABLO CLAY NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. Polypogon monospeliensis	20	N	FACW
2. Picris escoides	5	N	FAC
3. Lolium perenne	80	Y	FAC
4. Brassica nigra	15	N	NI
5. Verbena purpurea	5	N	OBL
6.			
7.			
8.			
	125 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	5	x 1 =	5
FACW species	20	x 2 =	40
FAC species	85	x 3 =	255
FACU species	_____	x 4 =	_____
UPL species	15	x 5 =	75
Column Totals:	125 (A)		375 (B)

Prevalence Index = B/A = 3

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Assumed

Hydric Soil Present? Yes X No _____

Remarks:

* No soil pits excavated due to potential cultural resources

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- 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 Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

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

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: CP/SD Sampling Date: 10/2/15
Applicant/Owner: SDGE State: CA Sampling Point: SP 37
Investigator(s): A. BORCHER, D. HUSS Section, Township, Range: NA
Landform (hillslope, terrace, etc.): ROAD RUT Local relief (concave, convex, none): CONCAVE Slope (%): 0
Subregion (LRR): LRR C Lat: 32.38205846 Long: -117.55530283 Datum:
Soil Map Unit Name: DIABLO CLAY NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes X No ___
Hydric Soil Present? Yes X No ___
Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? Yes X No ___

Remarks:
SP 37 @ road rut depression

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ___)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	___ = Total Cover		
Sapling/Shrub Stratum (Plot size: ___)			
1.			
2.			
3.			
4.			
5.			
	___ = Total Cover		
Herb Stratum (Plot size: ___)			
1. Crypsis schoenoides	50	Y	OBL
2. Picris echioides	15	Y	FAC
3. Polypogon monspeliensis	10	Y	FACW
4.			
5.			
6.			
7.			
8.			
	___ = Total Cover		
Woody Vine Stratum (Plot size: ___)			
1.			
2.			
	___ = Total Cover		

% Bare Ground in Herb Stratum ___ % Cover of Biotic Crust ___

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ___	x 1 = ___
FACW species ___	x 2 = ___
FAC species ___	x 3 = ___
FACU species ___	x 4 = ___
UPL species ___	x 5 = ___
Column Totals: ___ (A)	___ (B)

Prevalence Index = B/A = ___

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ___

Remarks:

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

*Assumed

Hydric Soil Present? Yes X No _____

Remarks:

* No soil pits excavated due to potential for cultural resources.

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**)
- X 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 Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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

Field Observations:

Surface Water Present?	Yes ___	No /	Depth (inches): ___
Water Table Present?	Yes ___	No /	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ___	No /	Depth (inches): ___

Wetland Hydrology Present? Yes X No _____

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

Remarks:

This page intentionally left blank.