

Appendix 4.9-A
Jurisdictional Delineation
Report

**SAN DIEGO GAS & ELECTRIC COMPANY
TL695/6971 RECONDUCTOR PROJECT**

PRELIMINARY JURISDICTIONAL DELINEATION REPORT



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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 Borchert 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.

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 Borchert 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 gull/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

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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 monspeliensis*) 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](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).

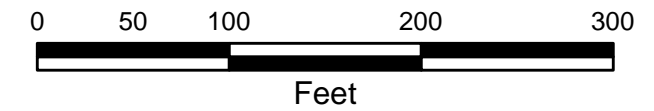
Appendix A – Jurisdictional Delineation Mapbook

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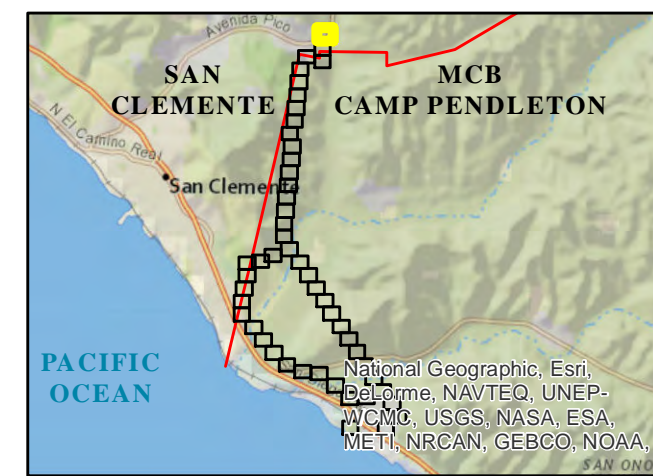
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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
⊙ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
Ⓜ 69kV Underground Vault	— Swale (Non-jurisdictional)
Ⓜ Guard structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
— Proposed Route	— ACOE Wetland/RWQCB
— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



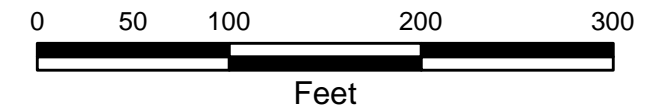
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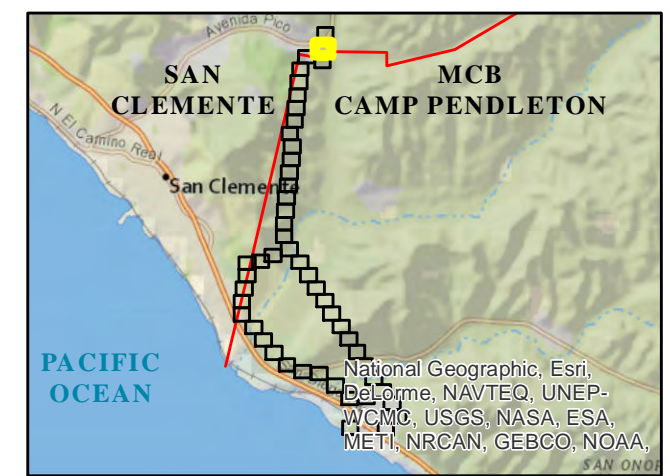
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LEGEND	
Project Utility Poles	Delineation Results
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ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
ⓉⓉ 69kV Underground Vault	— Swale (Non-jurisdictional)
ⓉⓉ Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
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— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
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— Survey Corridor	



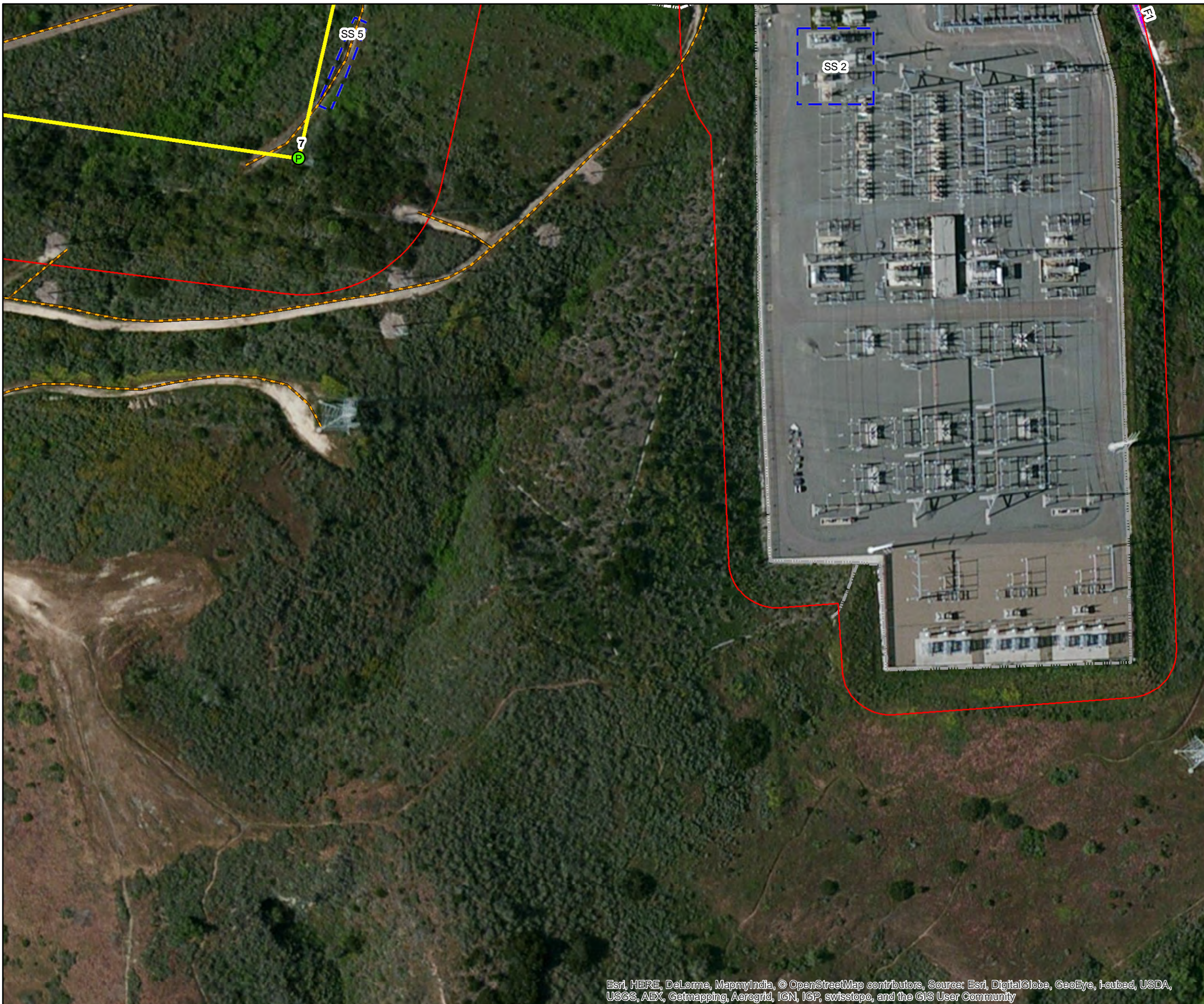
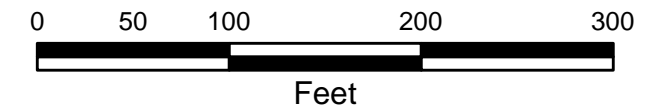
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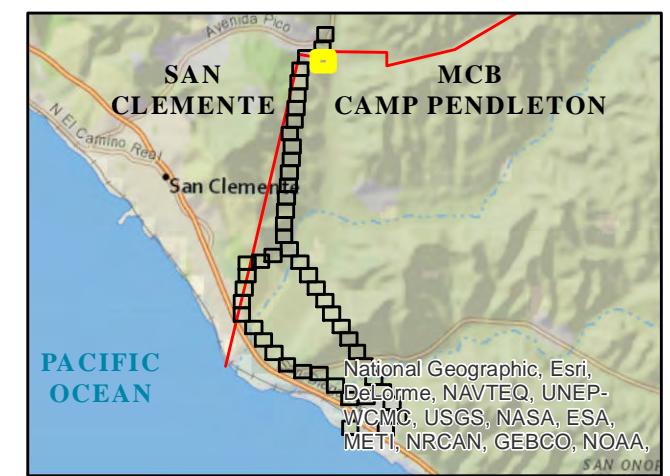
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Delineation Results
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ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
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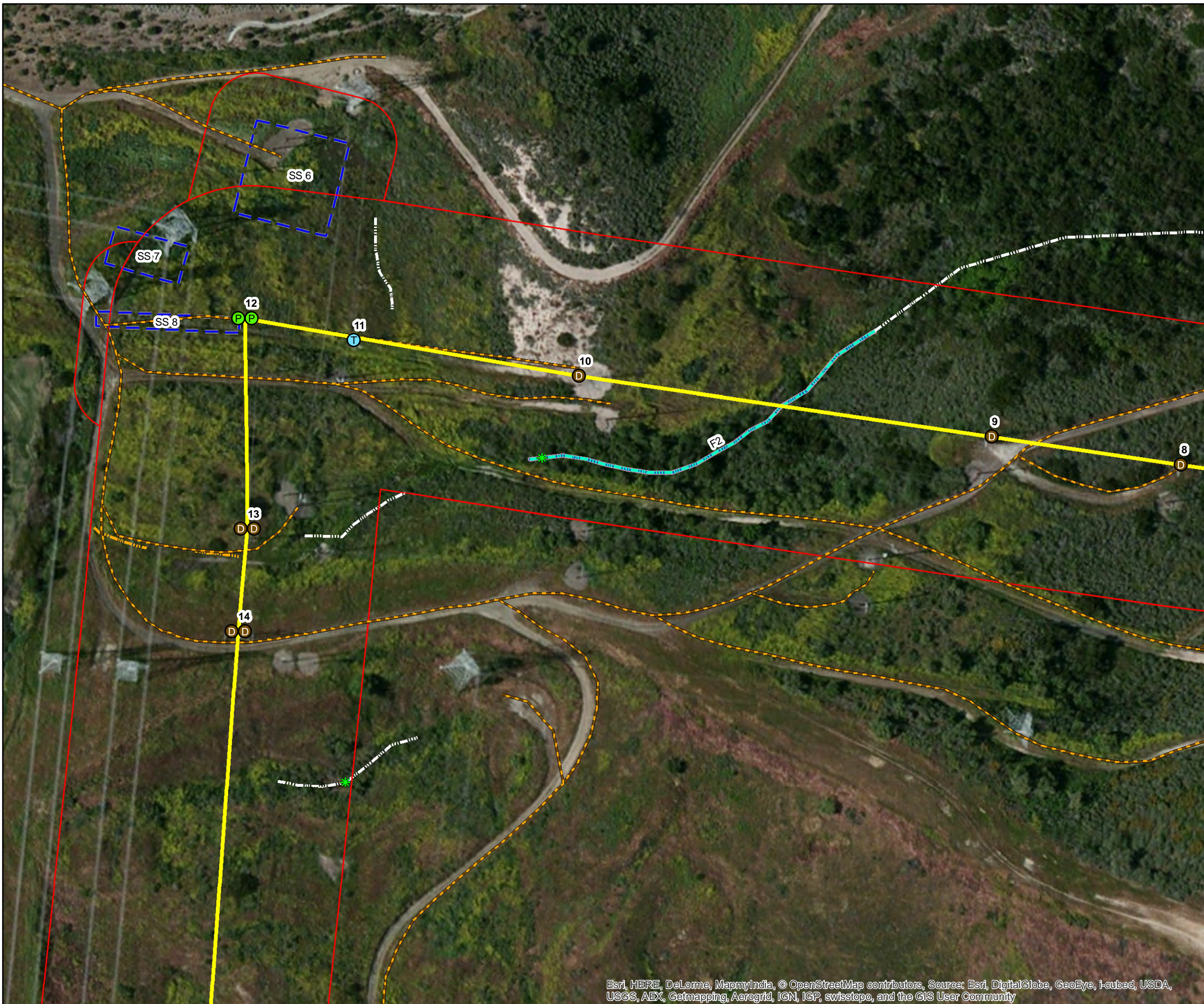
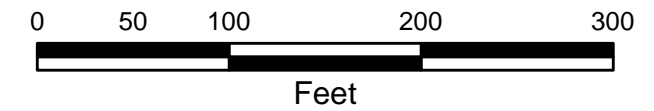
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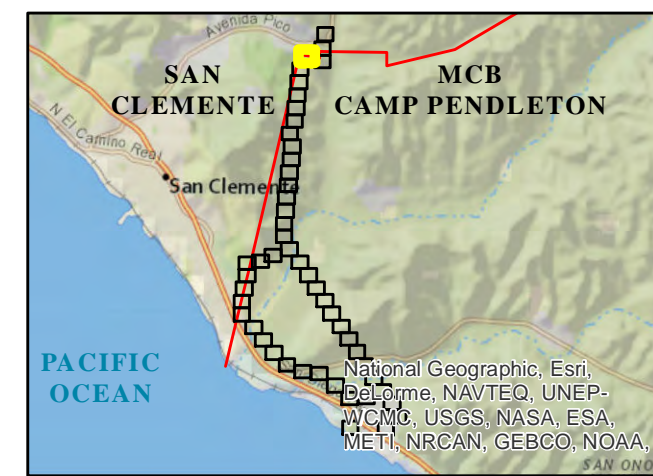
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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
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Ⓣ Direct Bury	▲ Culvert/Storm Drain
ⓉⓉ Direct Bury Multiple	Delineated Feature
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Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
ⓂⓂ 69kV Underground Vault	— Swale (Non-jurisdictional)
Ⓣ Guard Structure	Jurisdictional Wetlands and Waters
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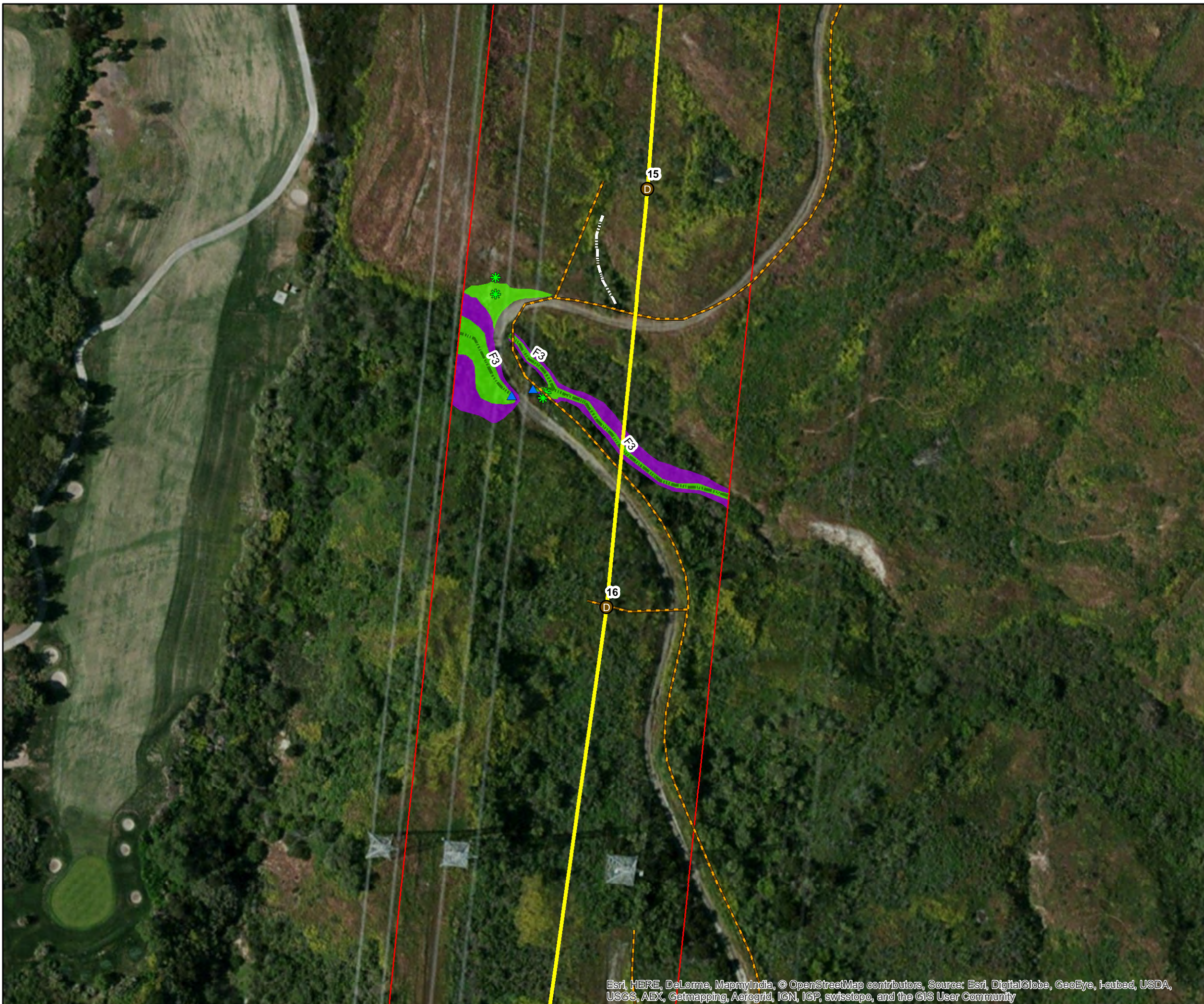
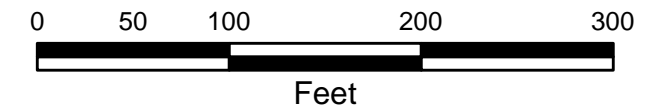
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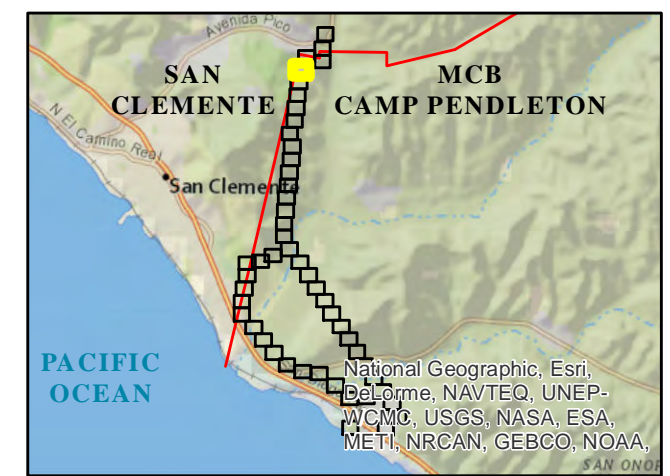
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Delineation Results
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Ⓛ Direct Bury	▲ Culvert/Storm Drain
ⓁⓁ Direct Bury Multiple	Delineated Feature
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Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
ⓁⓁⓁ 69kV Underground Vault	— Swale (Non-jurisdictional)
ⓉⓉ Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
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— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
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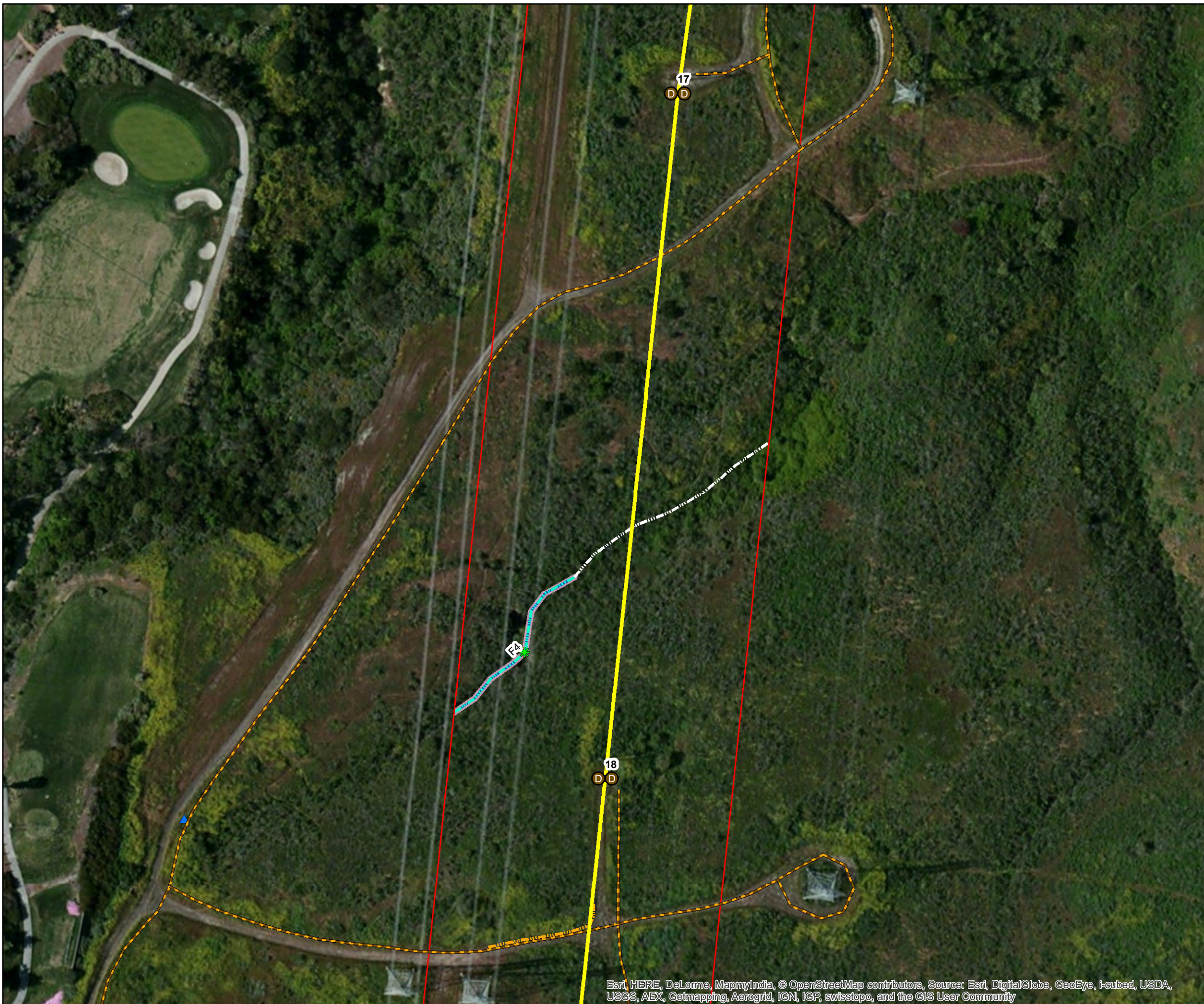
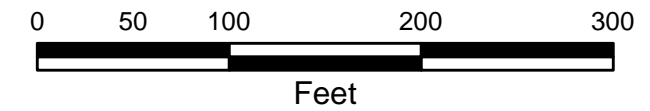
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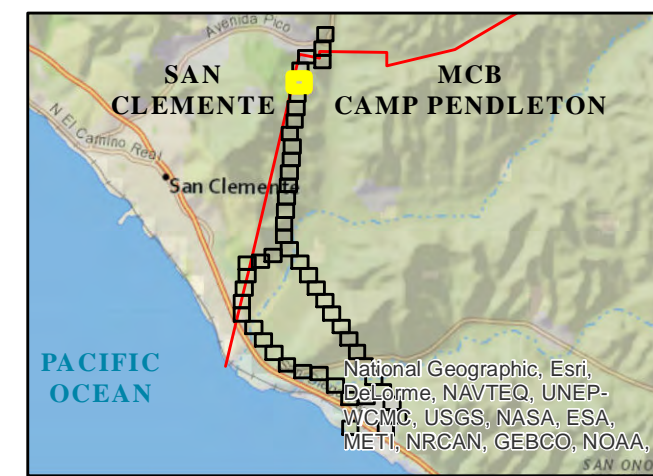
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LEGEND	
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ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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69kV Underground Vault	— Swale (Non-jurisdictional)
TT Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
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— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
Work/Turnaround/Staging Areas	California Coastal Commission Wetland
Stringing Sites	
Staging Yards	
Survey Corridor	



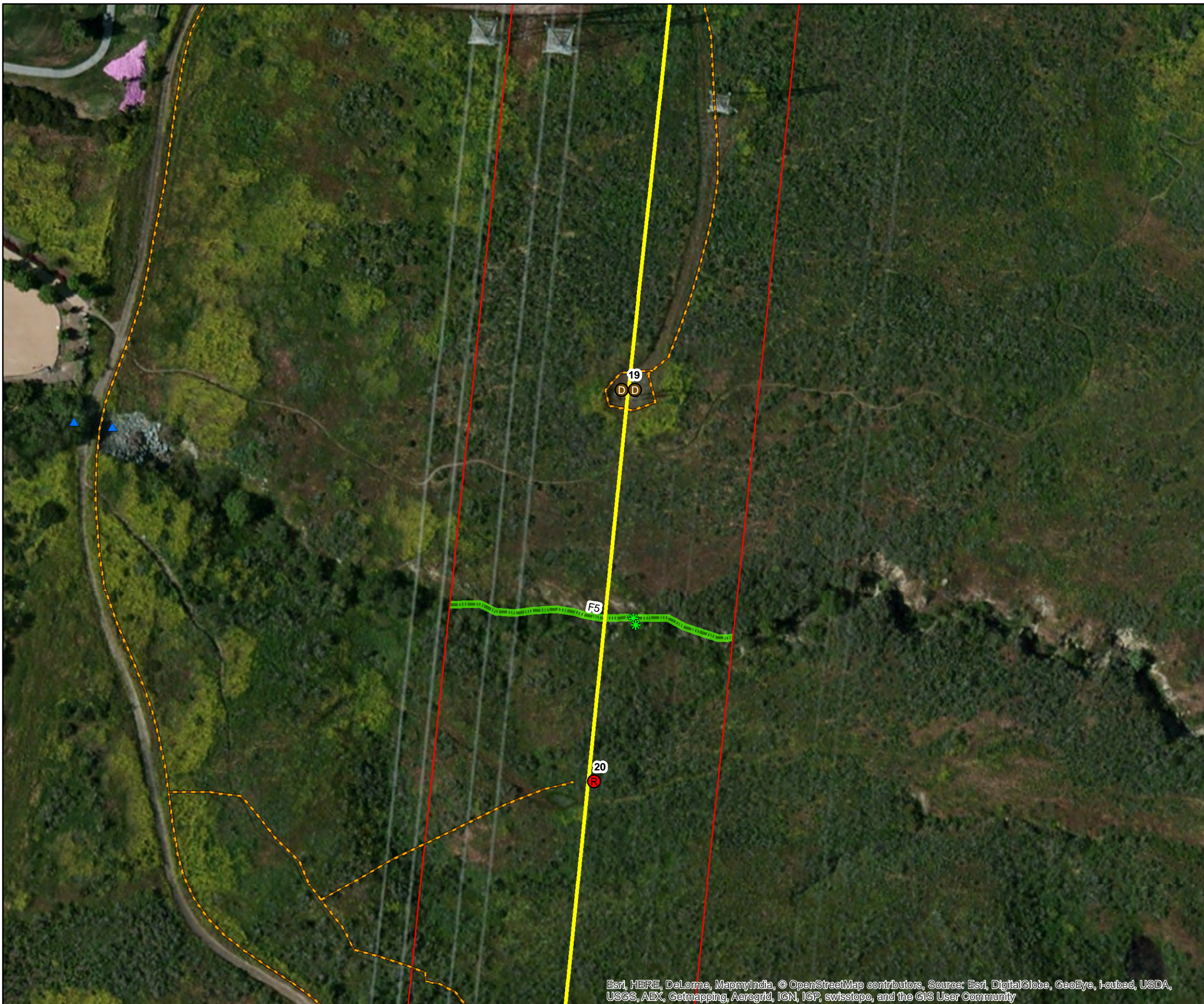
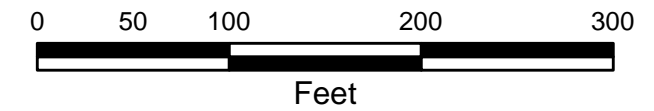
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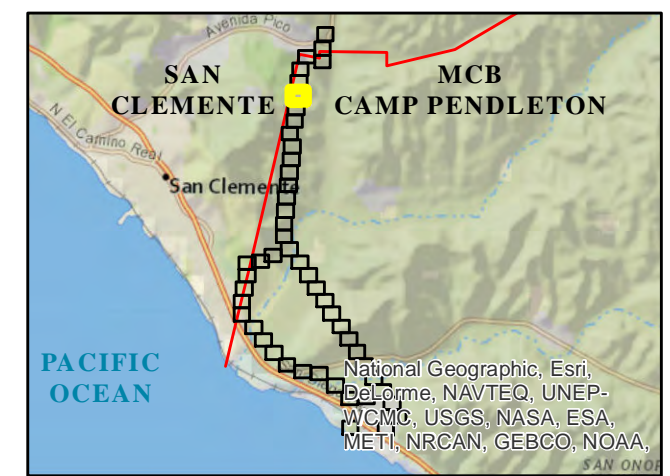
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1 inch = 100 feet @11" x 17"



LEGEND	
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ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
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ⓂⓂ 69kV Underground Vault	— Swale (Non-jurisdictional)
ⓉⓉ Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
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— Underground Route	— CDFW Streambed/RWQCB
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— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



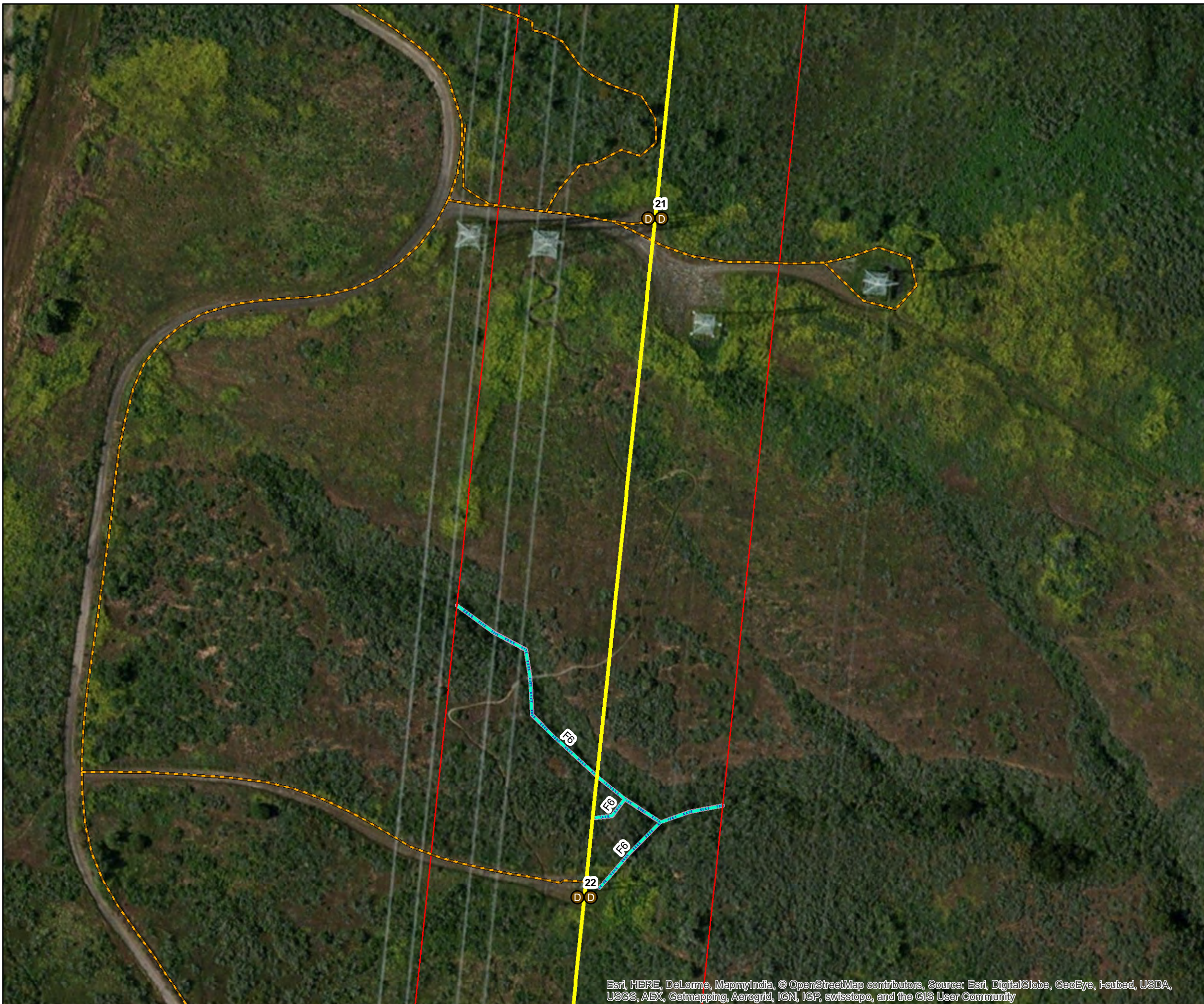
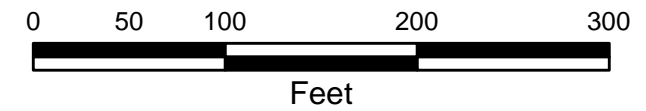
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LEGEND	
Project Utility Poles	Delineation Results
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ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
ⓂⓂ 69kV Underground Vault	— Swale (Non-jurisdictional)
ⓉⓉ Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
— Proposed Route	— ACOE Wetland/RWQCB
— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



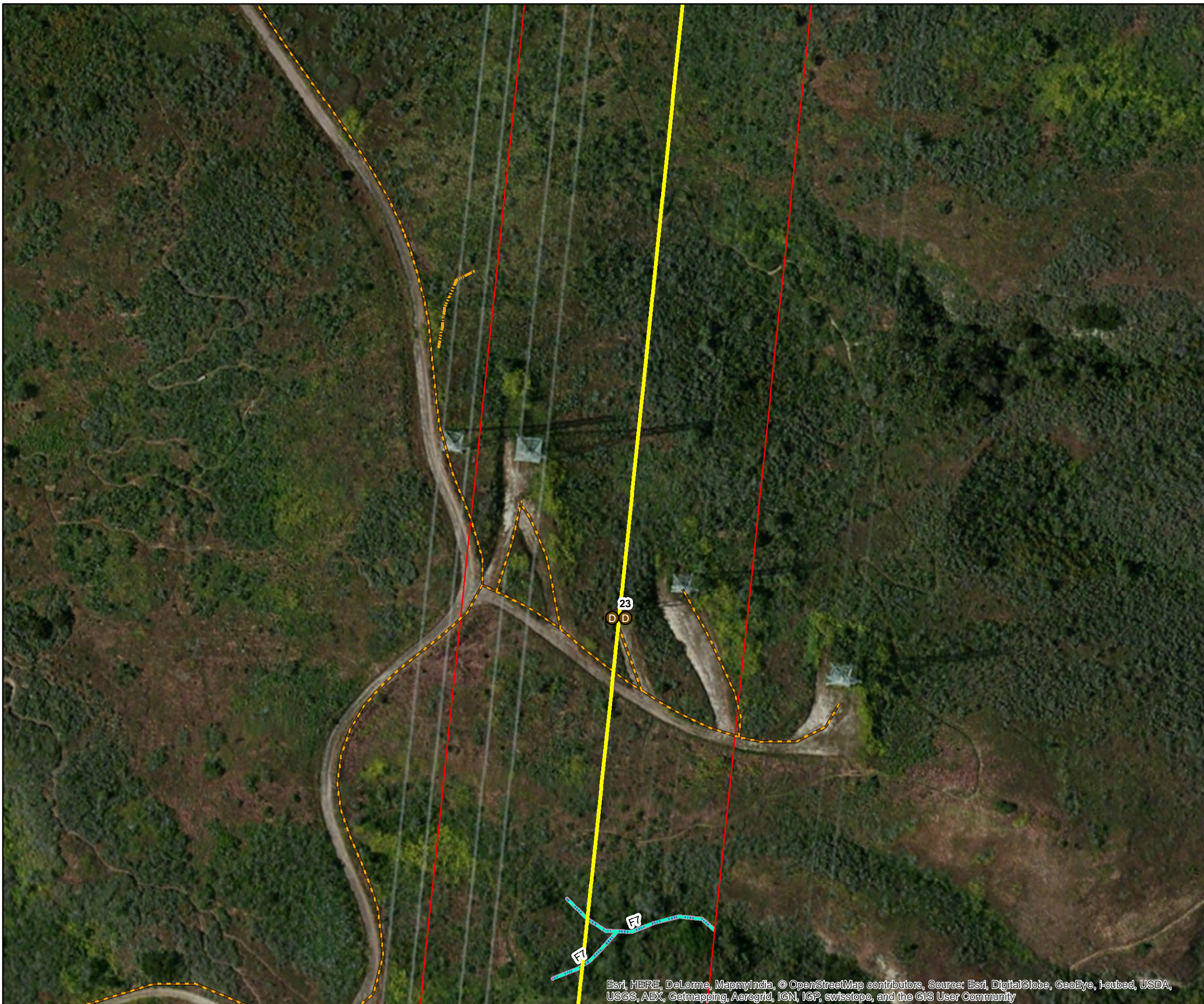
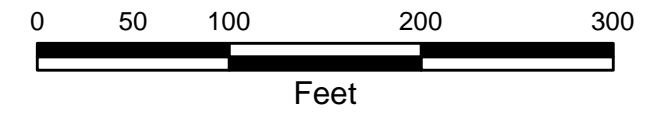
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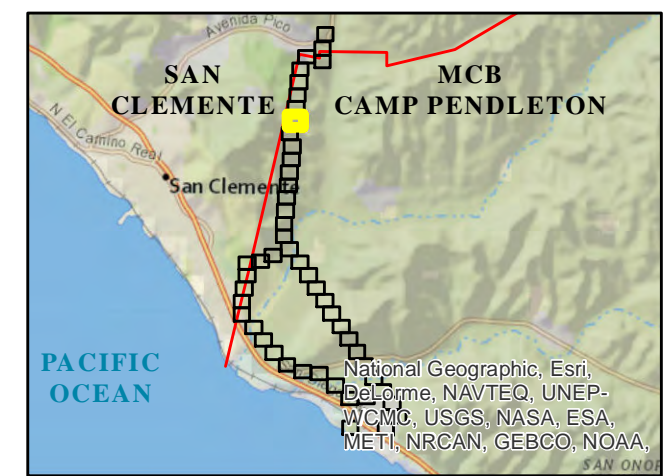
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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
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— Access_allowed	— CDFW Riparian
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— Staging Yards	
— Survey Corridor	



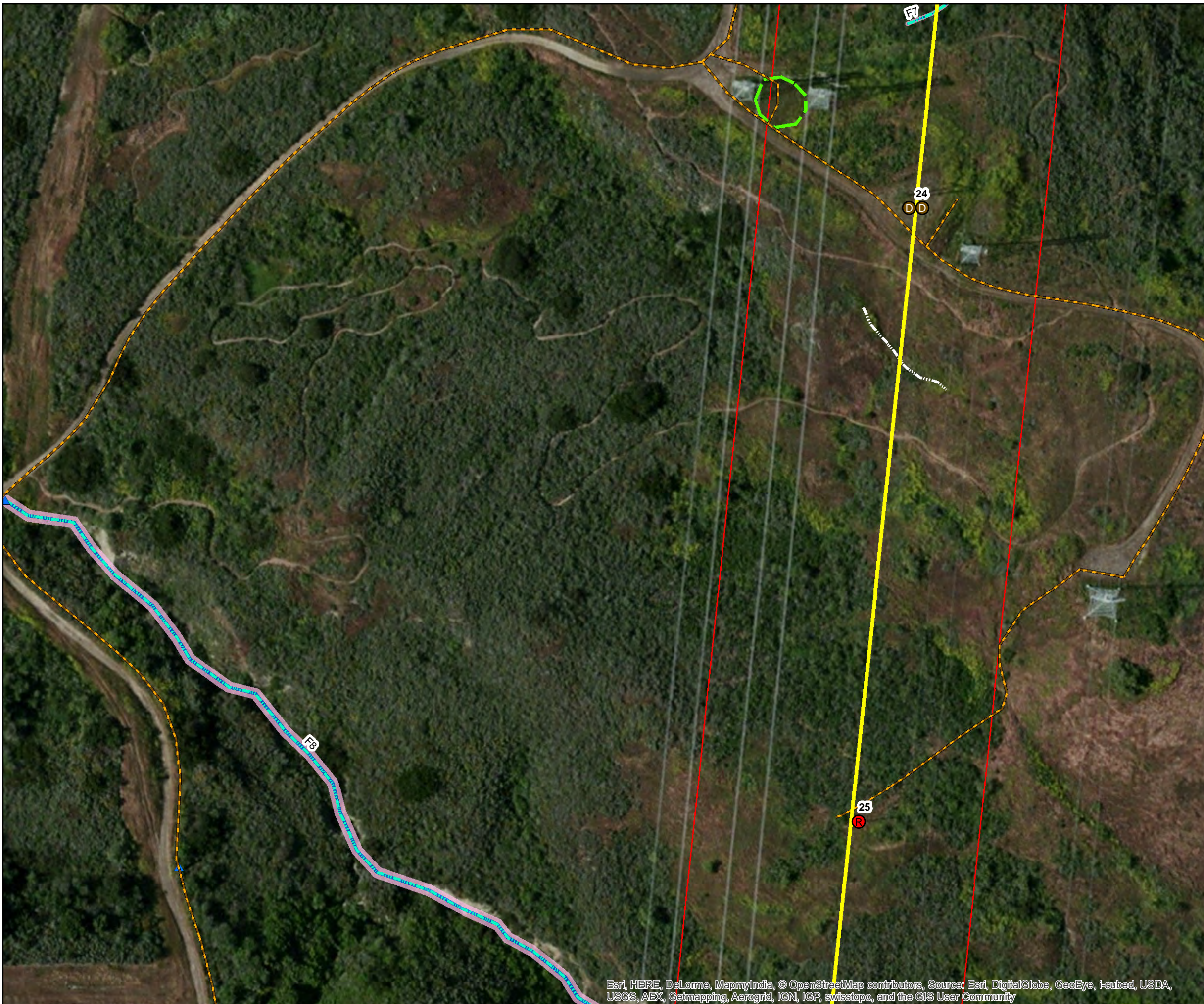
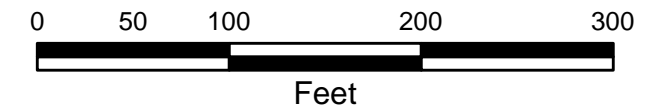
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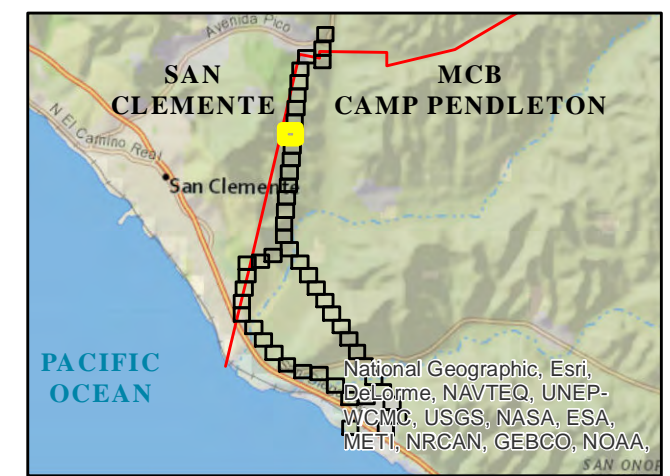
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LEGEND	
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ⓓⓓ Direct Bury Multiple	Delineated Feature
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— Stringing Sites	
— Staging Yards	
— Survey Corridor	



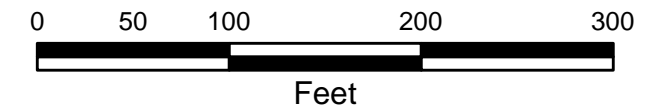
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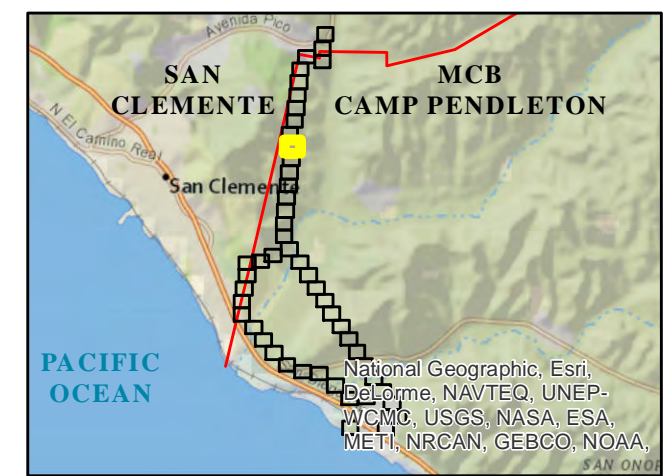
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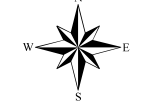
1 inch = 100 feet @11" x 17"



LEGEND	
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— Access Allowed	— CDFW Riparian
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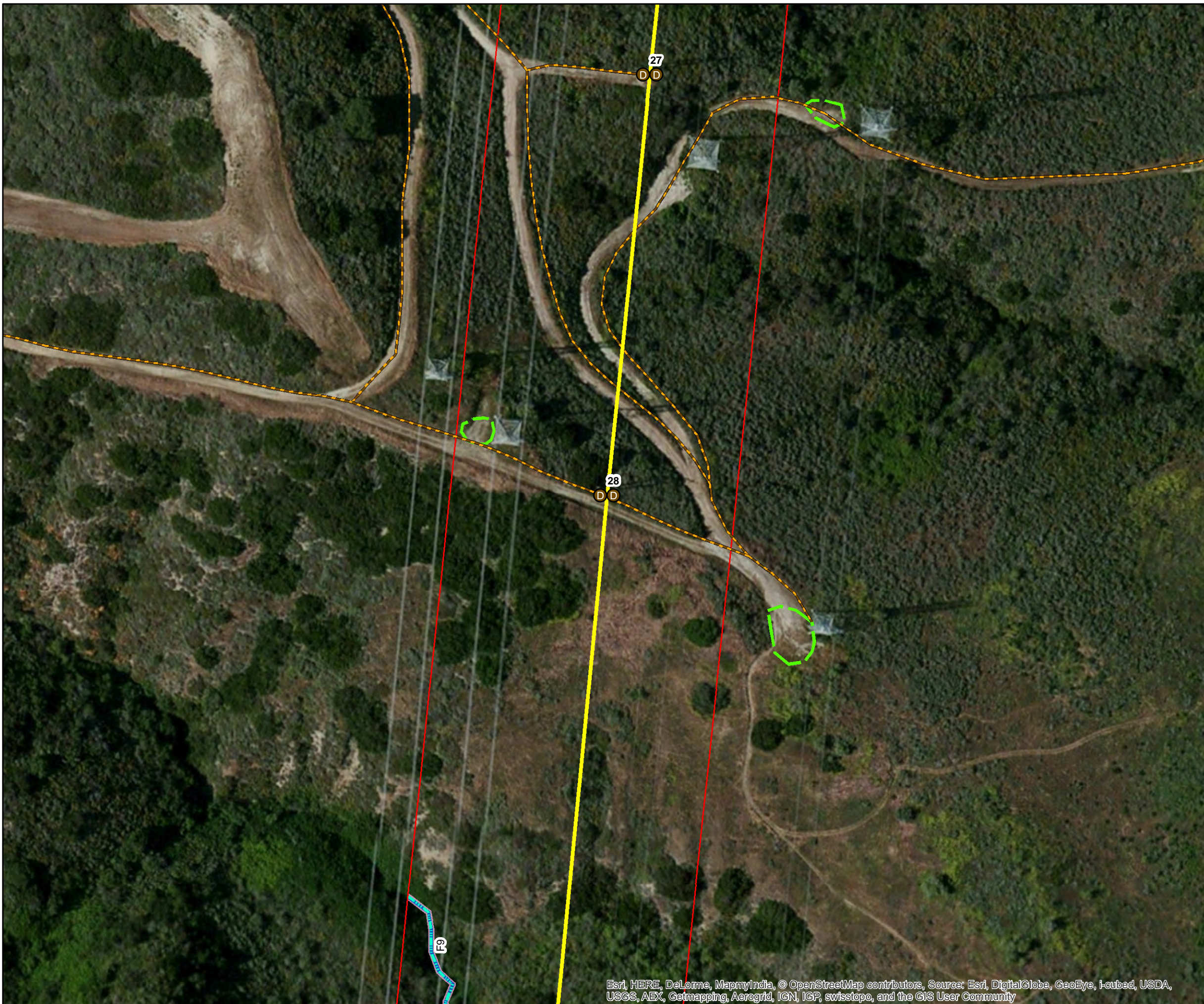
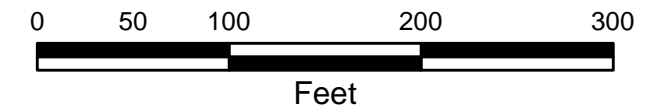
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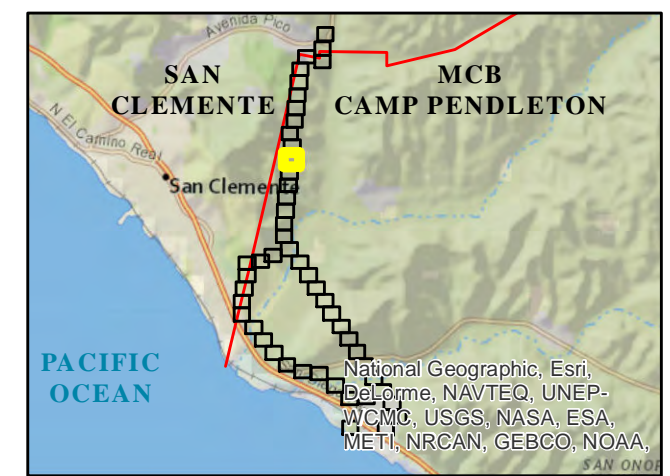
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Work/Turnaround/Staging Areas	California Coastal Commission Wetland
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Staging Yards	
Survey Corridor	



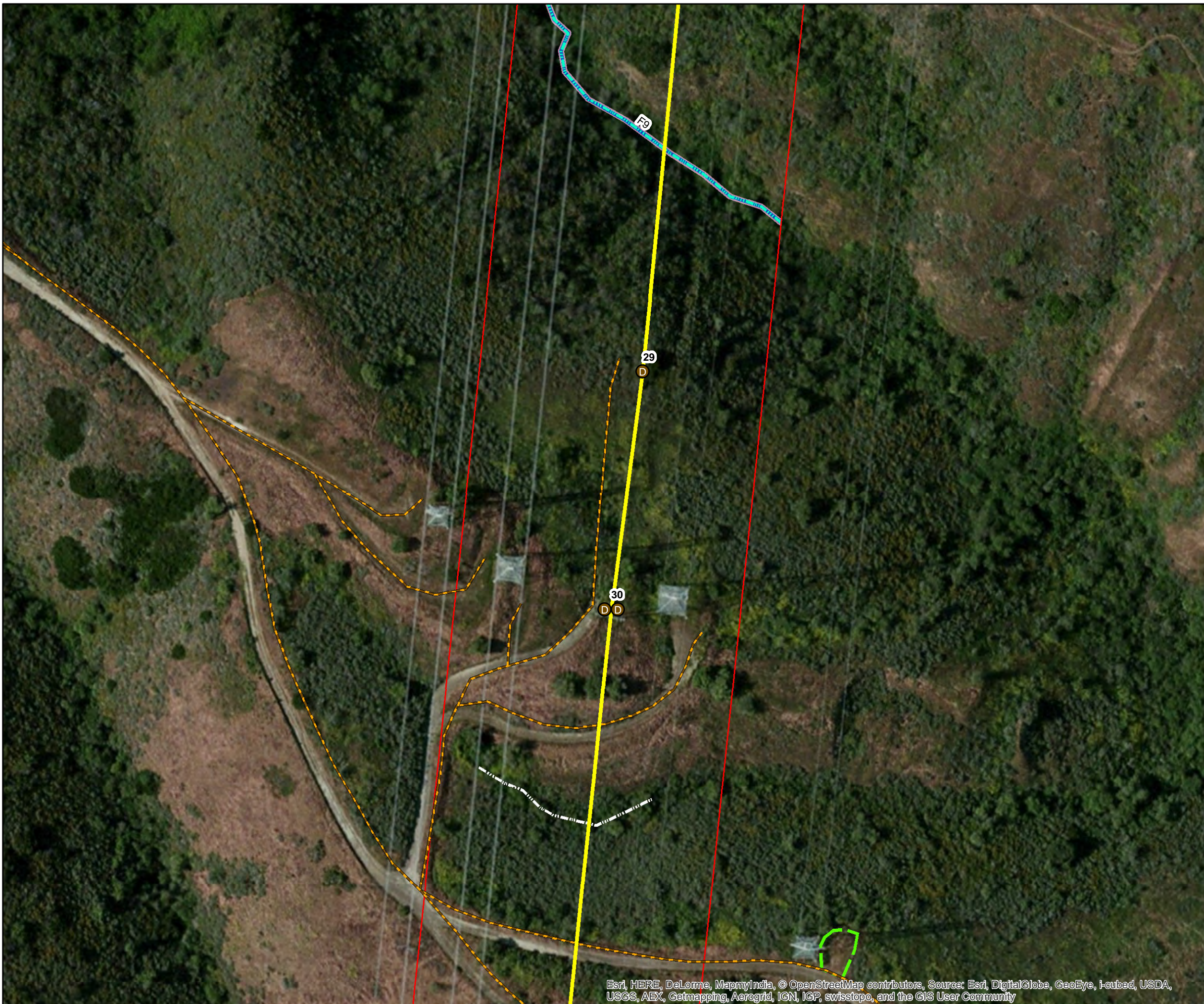
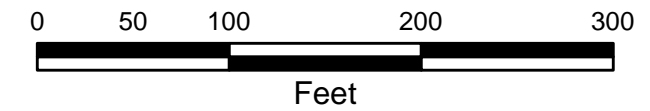
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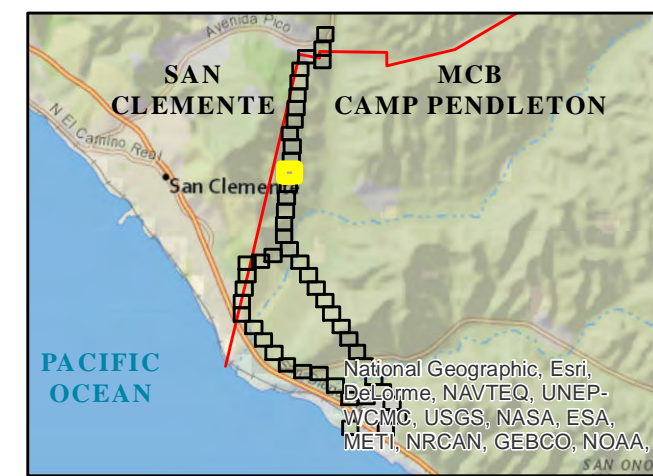
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1 inch = 100 feet @11" x 17"



LEGEND

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Ⓢ Cable Pole	✱ Sample Points
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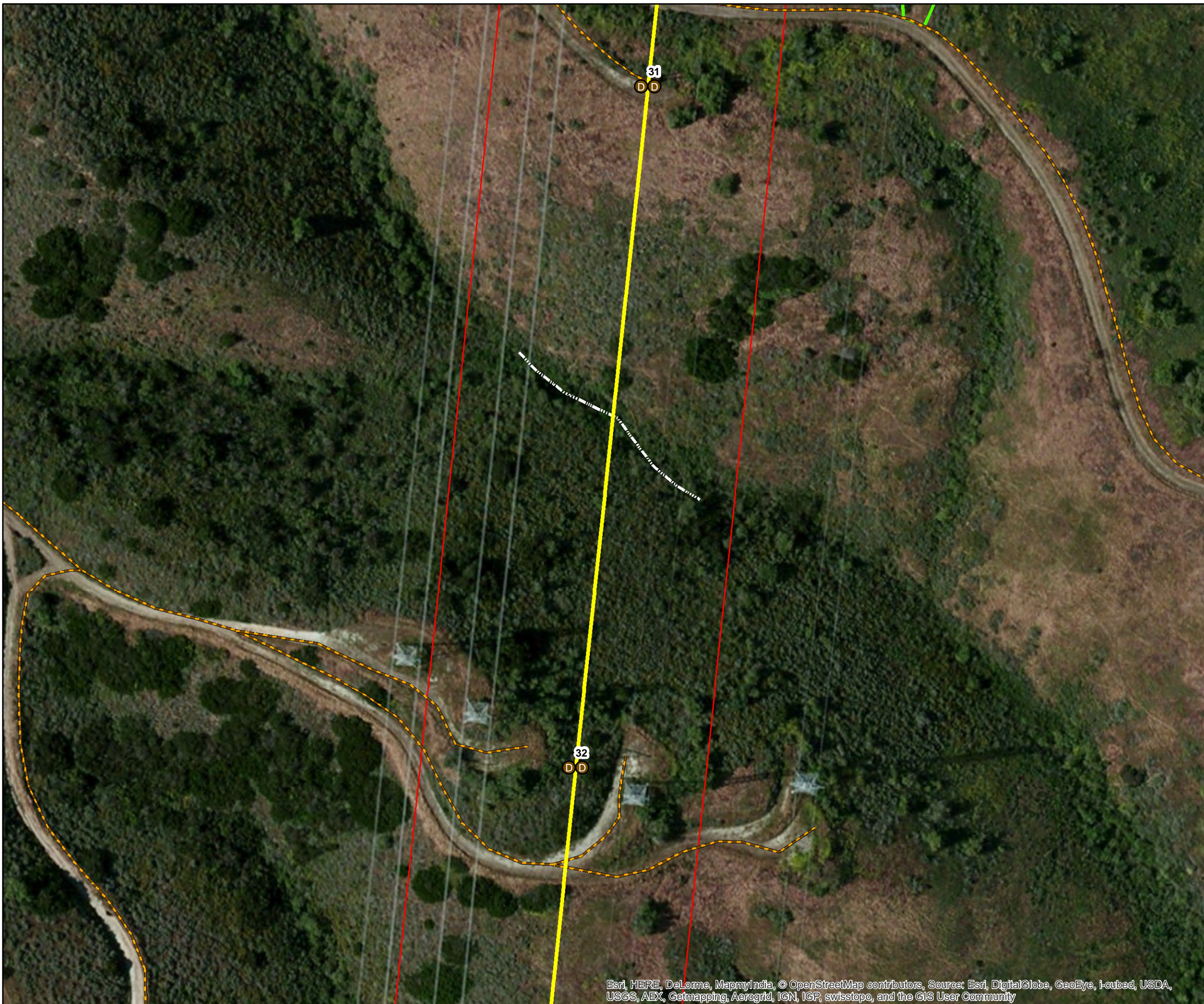
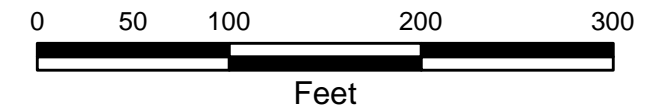
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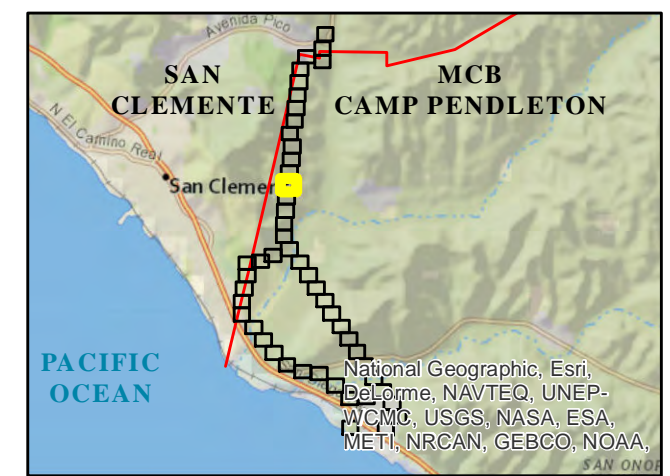
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LEGEND	
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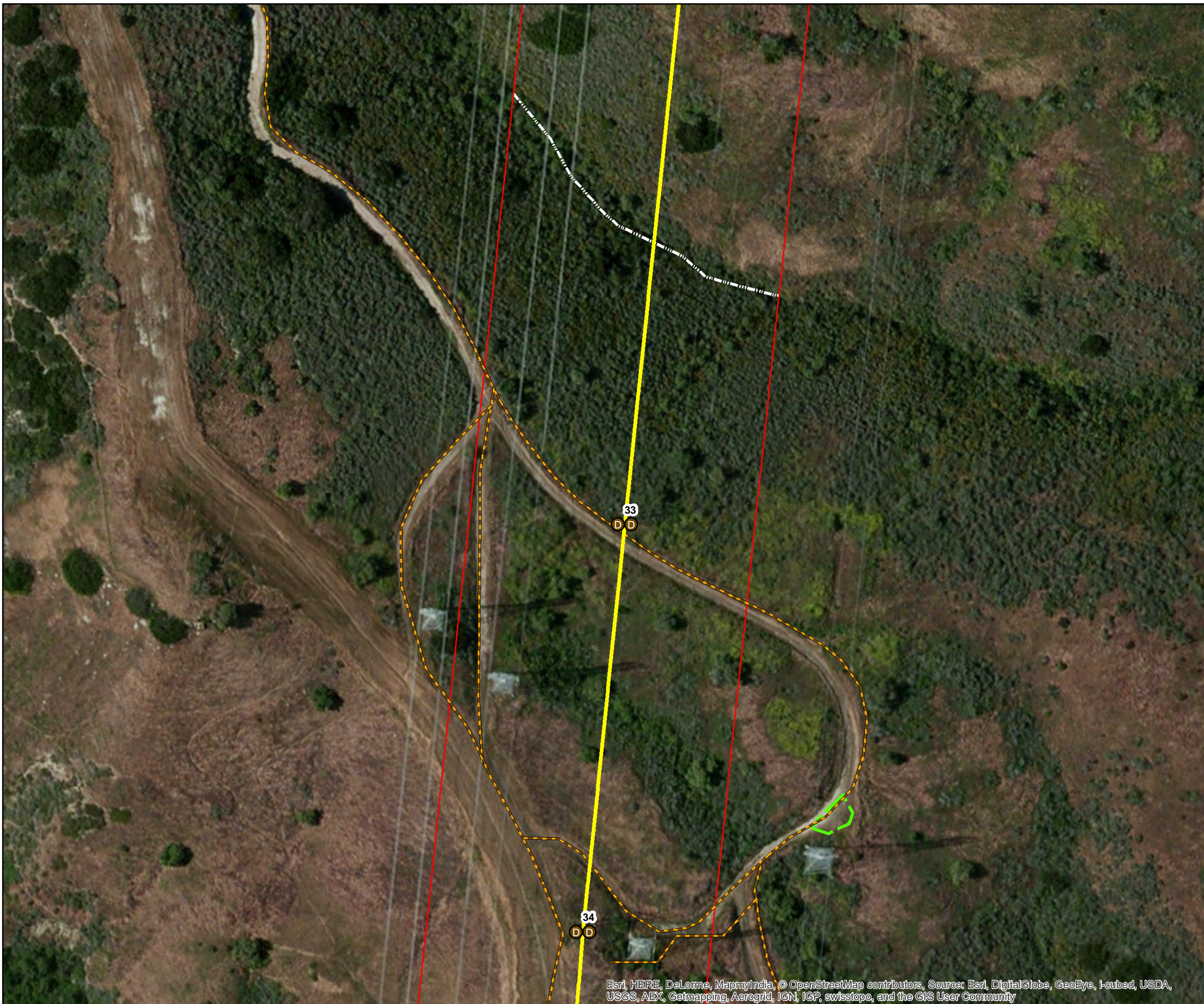
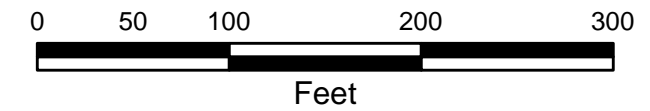
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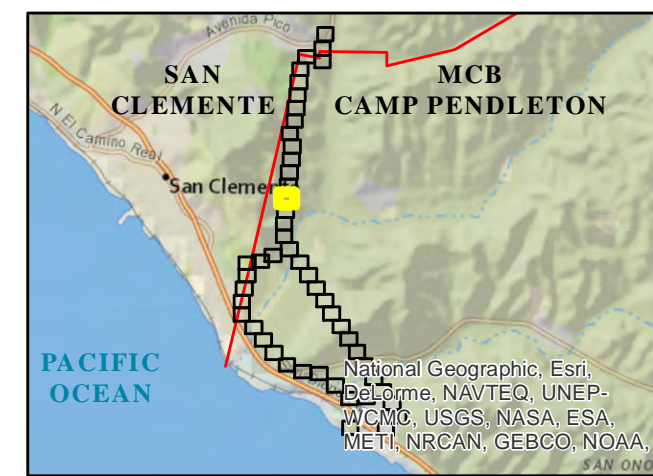
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Delineation Results
⊙ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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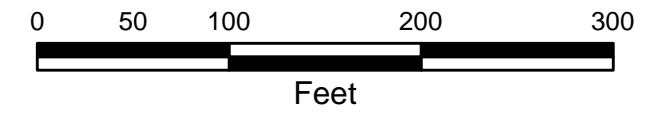
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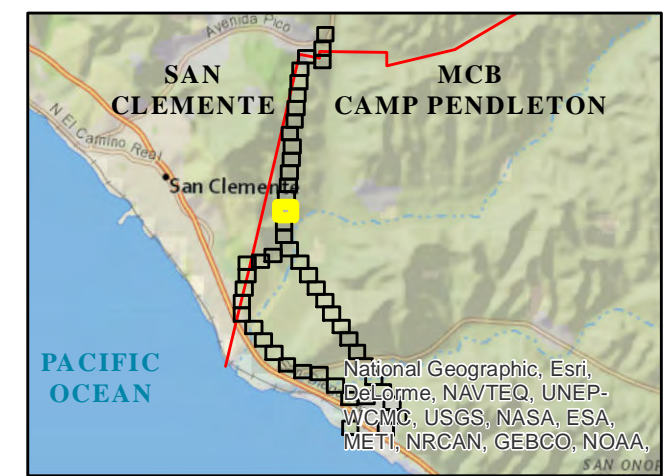
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1 inch = 100 feet @11" x 17"



LEGEND	
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Ⓢ Cable Pole	✱ Sample Points
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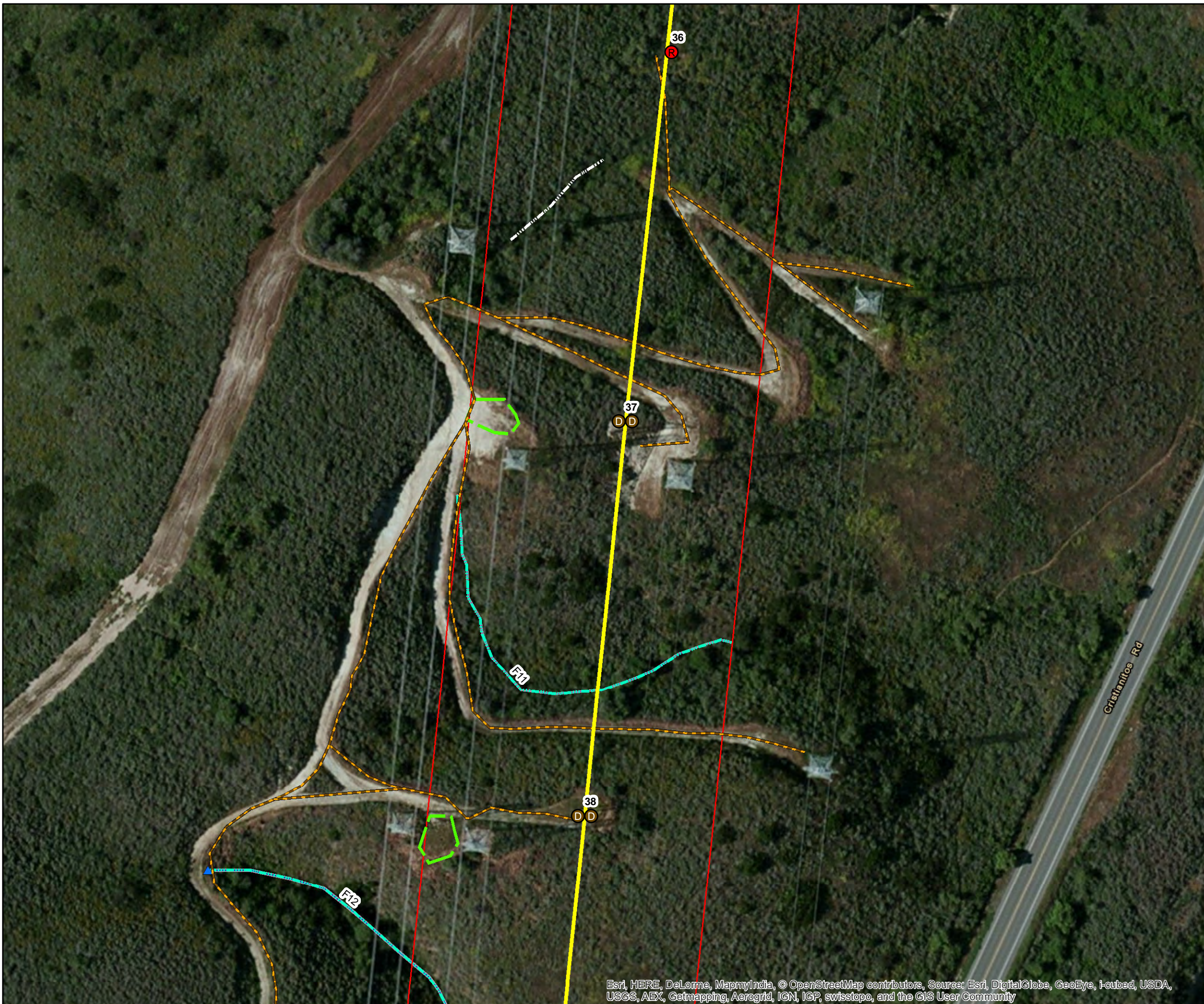
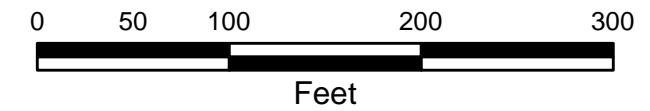
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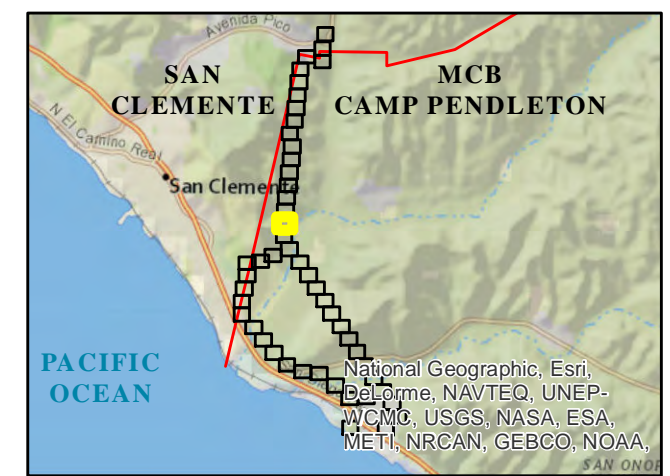
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LEGEND	
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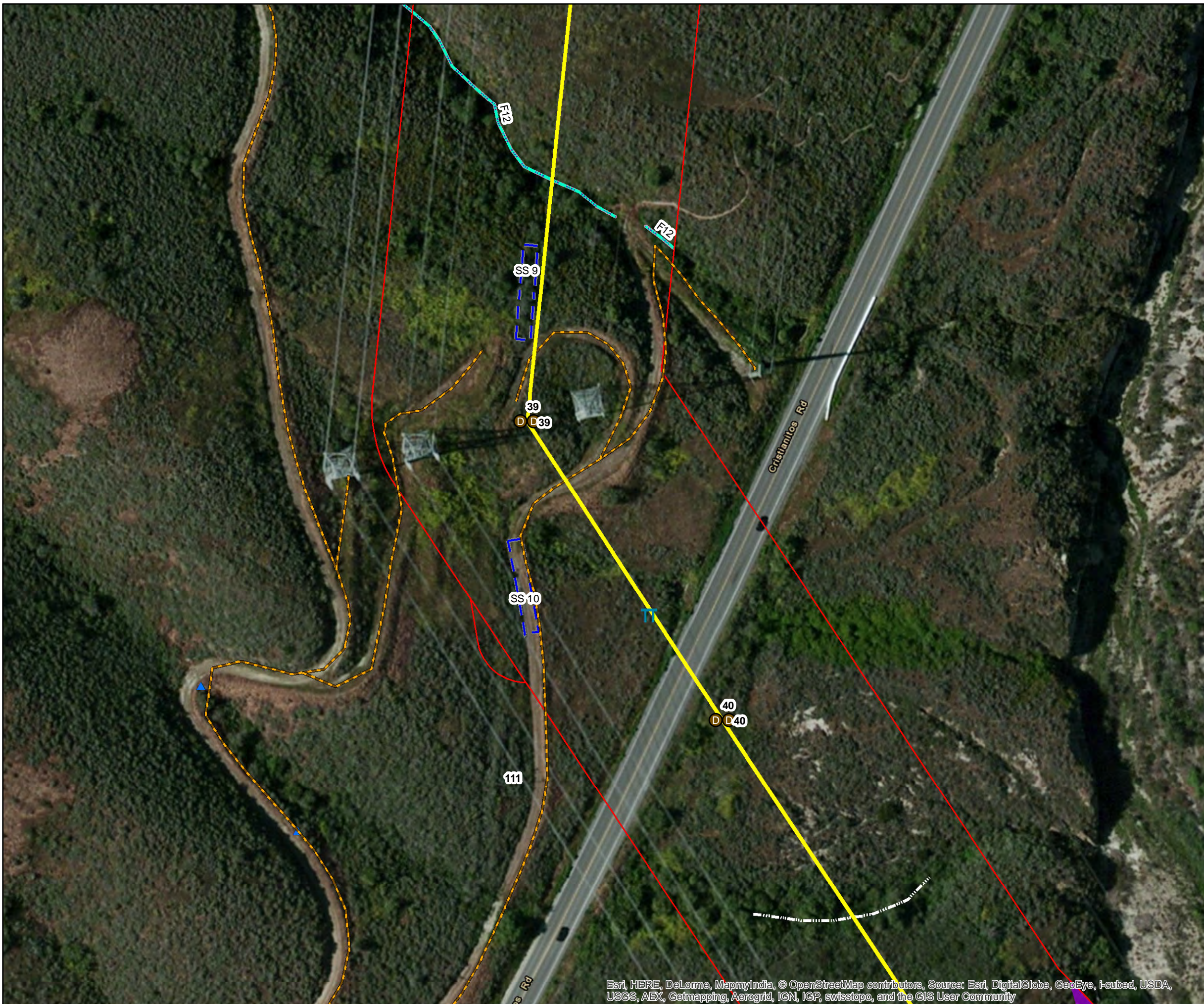
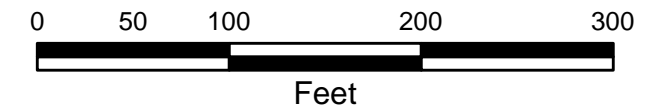
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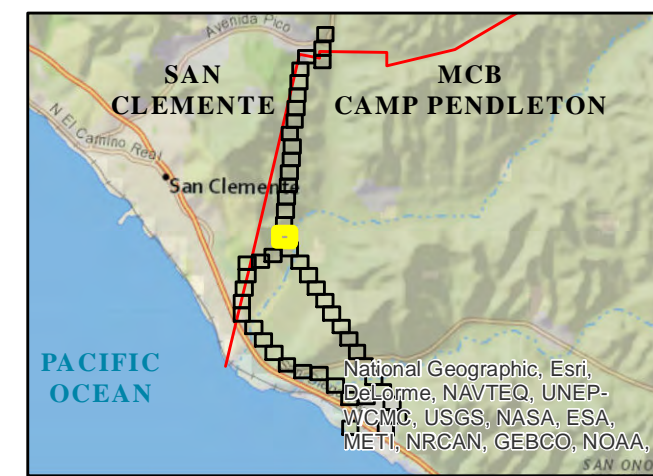
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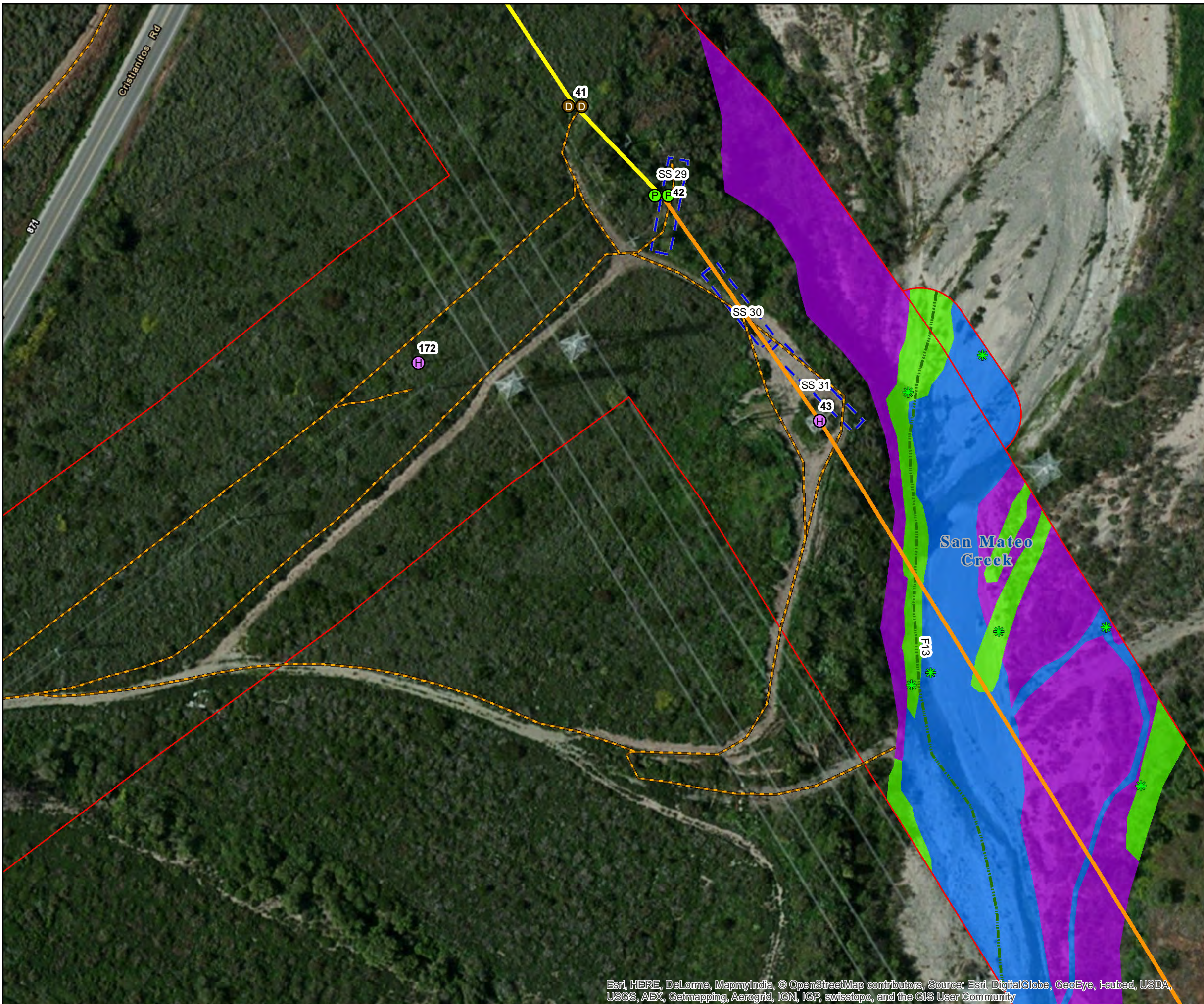
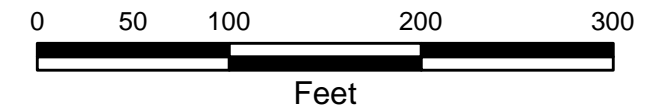
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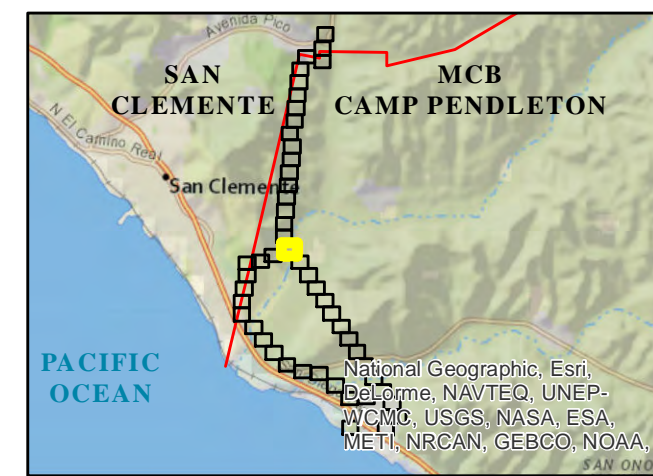
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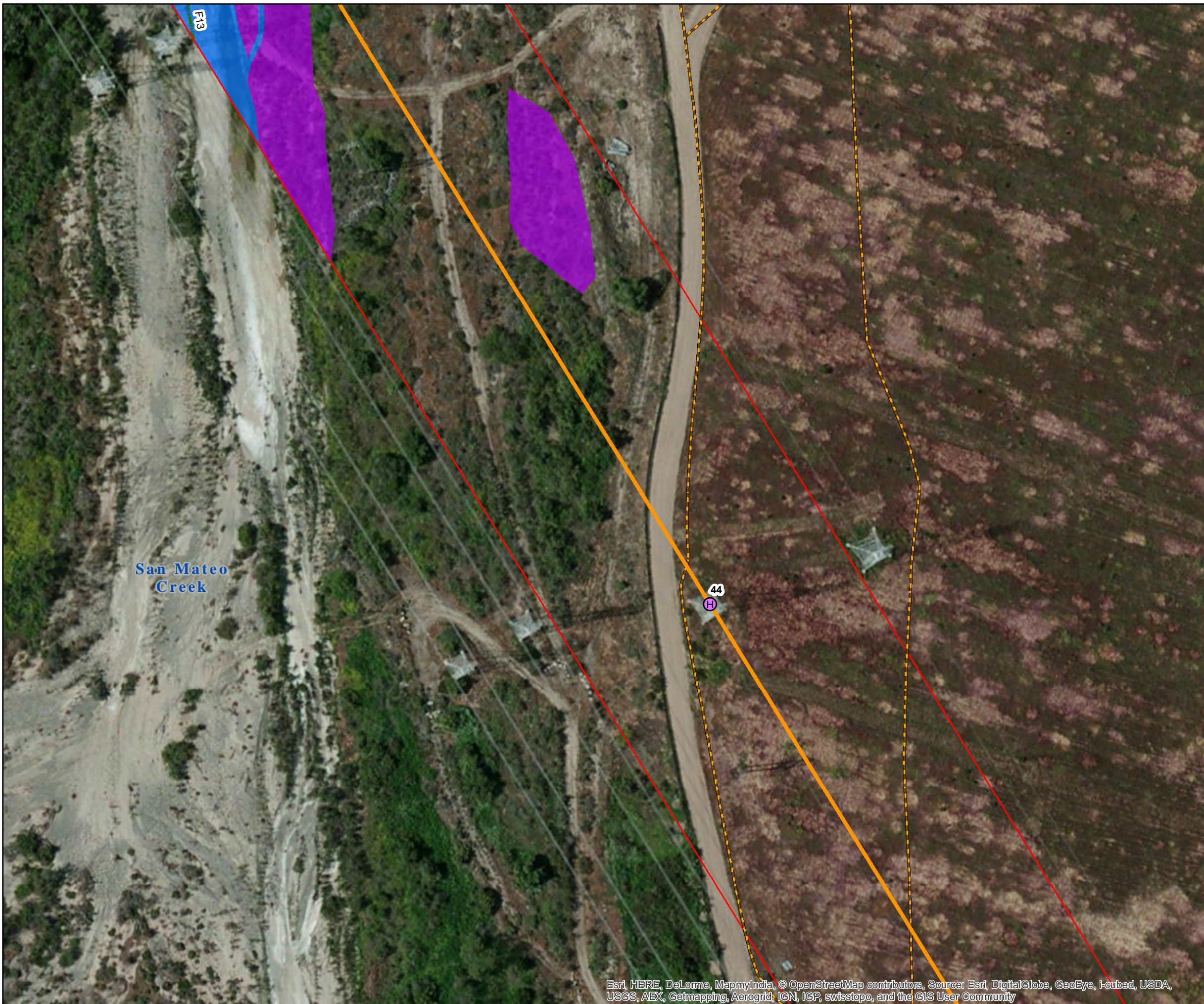
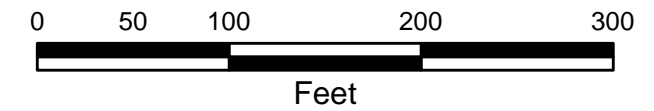
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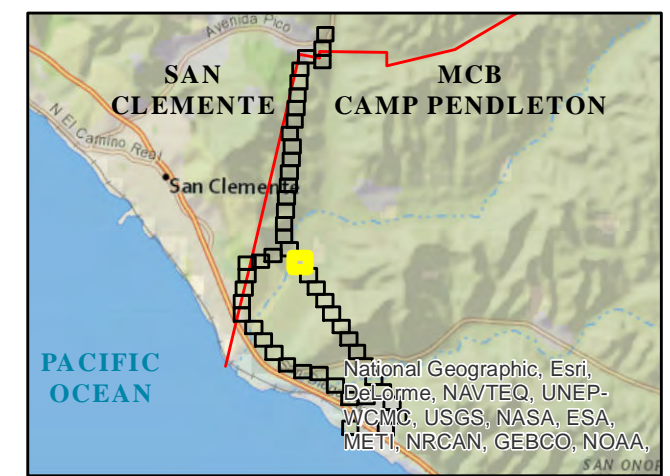
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LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
Ⓣ Direct Bury	▲ Culvert/Storm Drain
ⓉⓉ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
ⓉⓉ 69kV Underground Vault	— Swale (Non-jurisdictional)
ⓉⓉ Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
— Proposed Route	— ACOE Wetland/RWQCB
— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



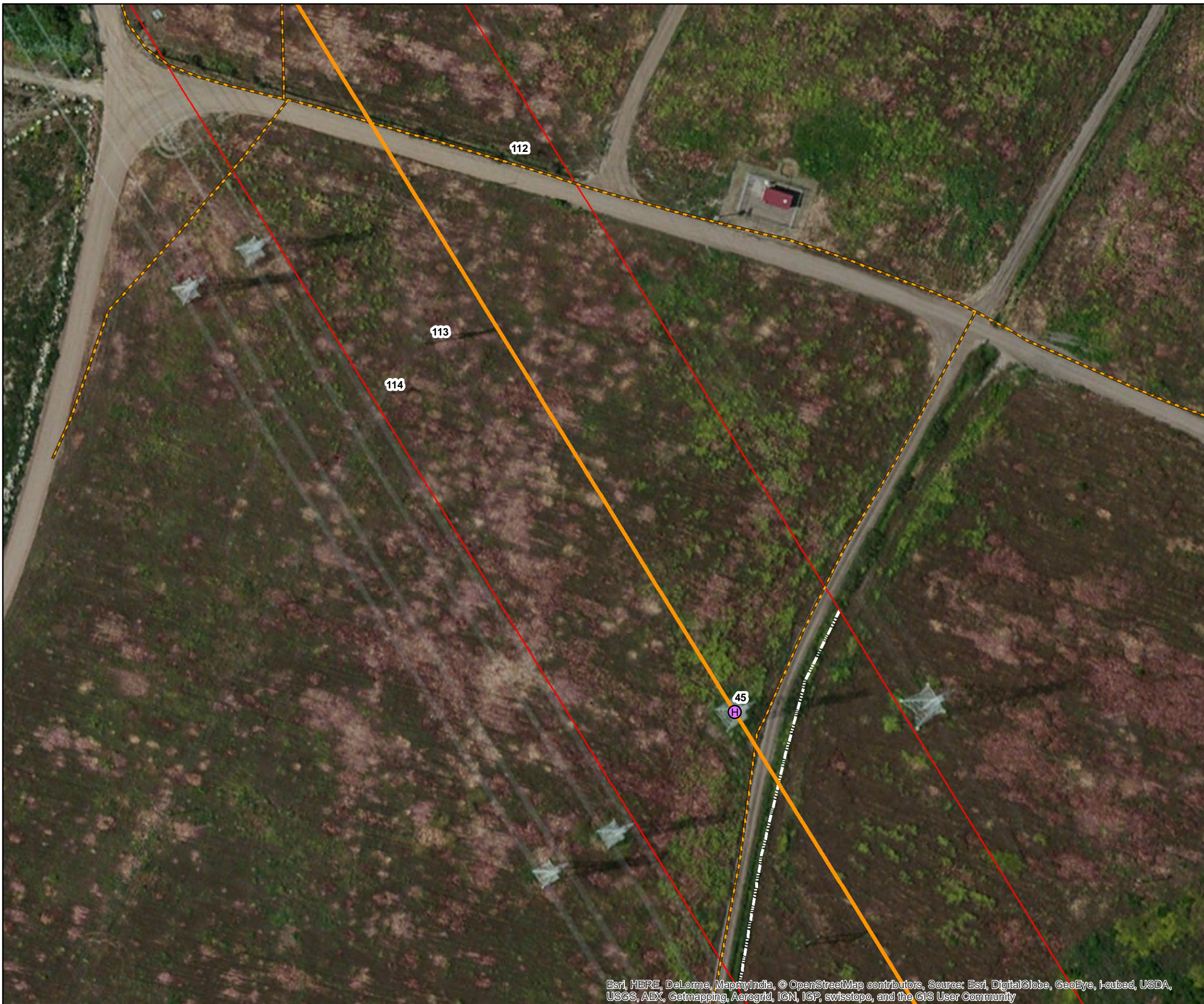
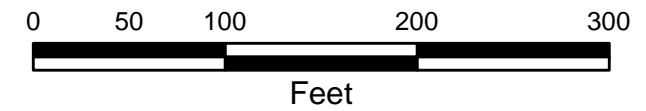
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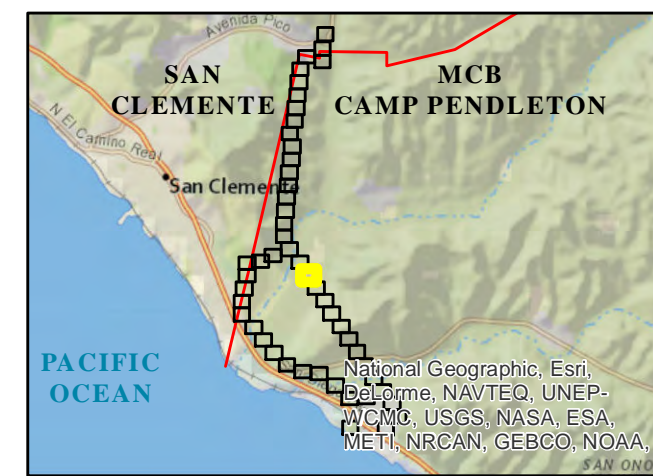
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
Ⓛ Direct Bury	▲ Culvert/Storm Drain
ⓁⓁ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
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ⓉⓉ 69kV Underground Vault	— Swale (Non-jurisdictional)
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— Overhead Route	— ACOE Wetland/RWQCB/CDFW
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— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



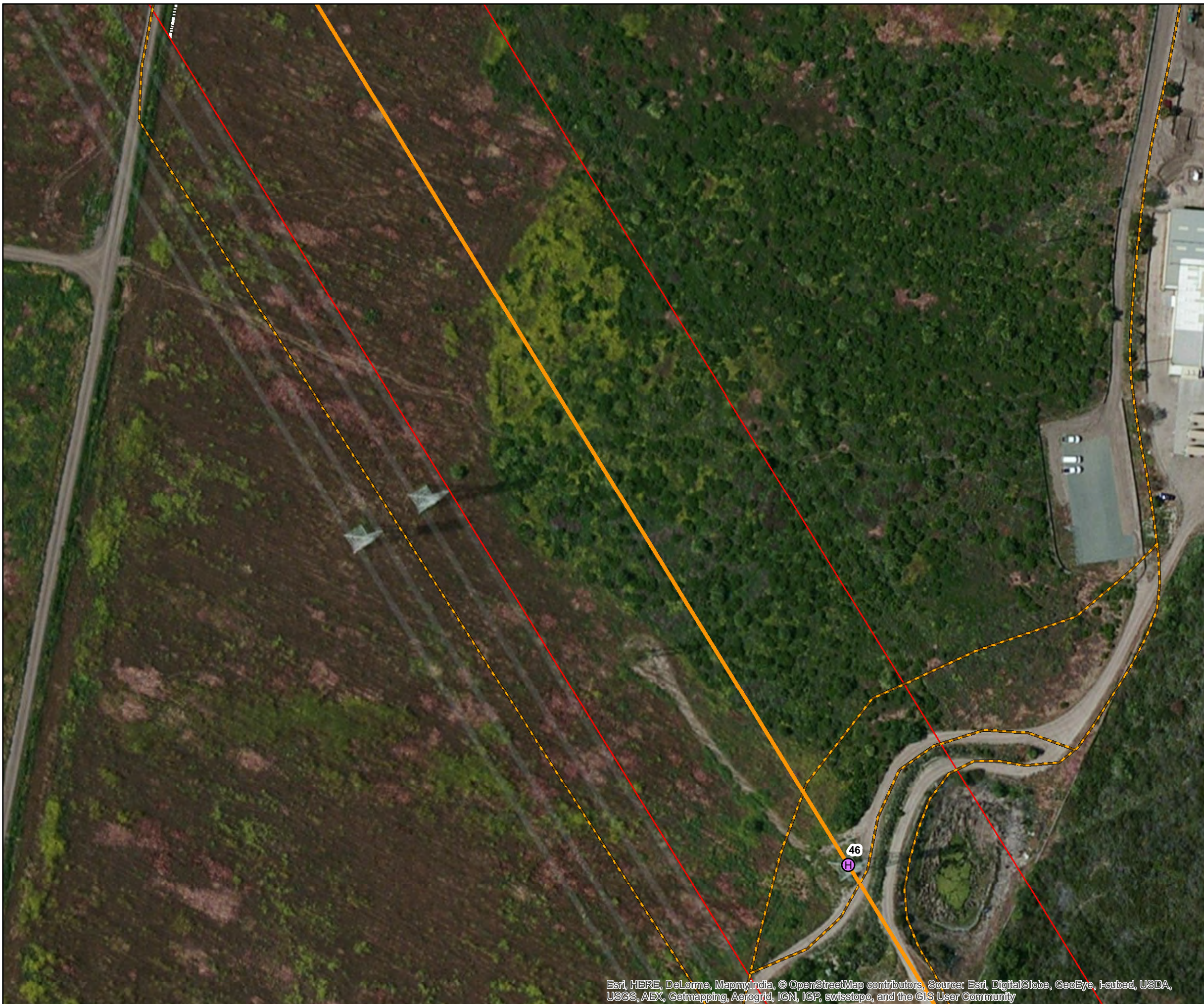
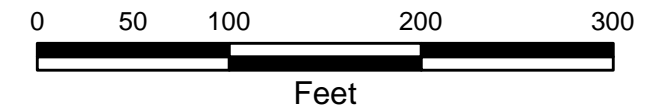
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 Reconductor Project
 Aquatic Delineation Maps

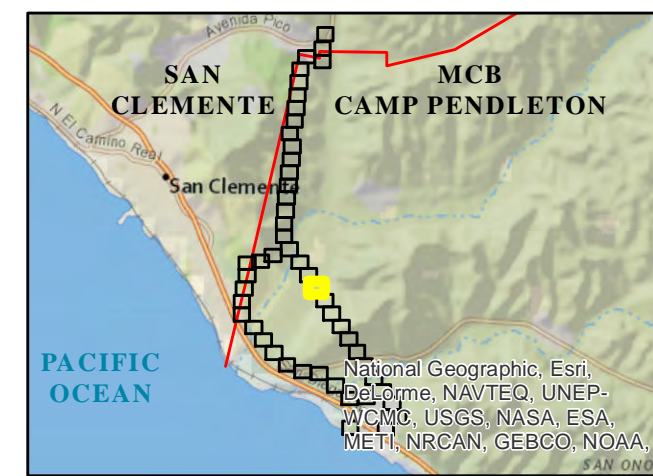
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



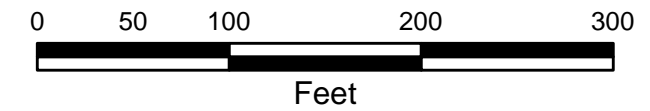
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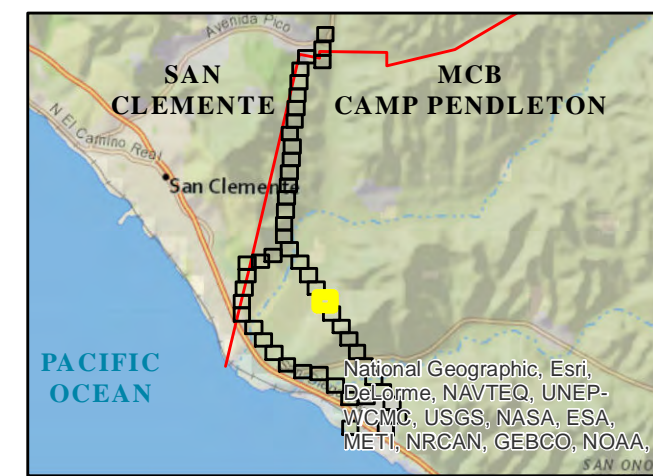
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 Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
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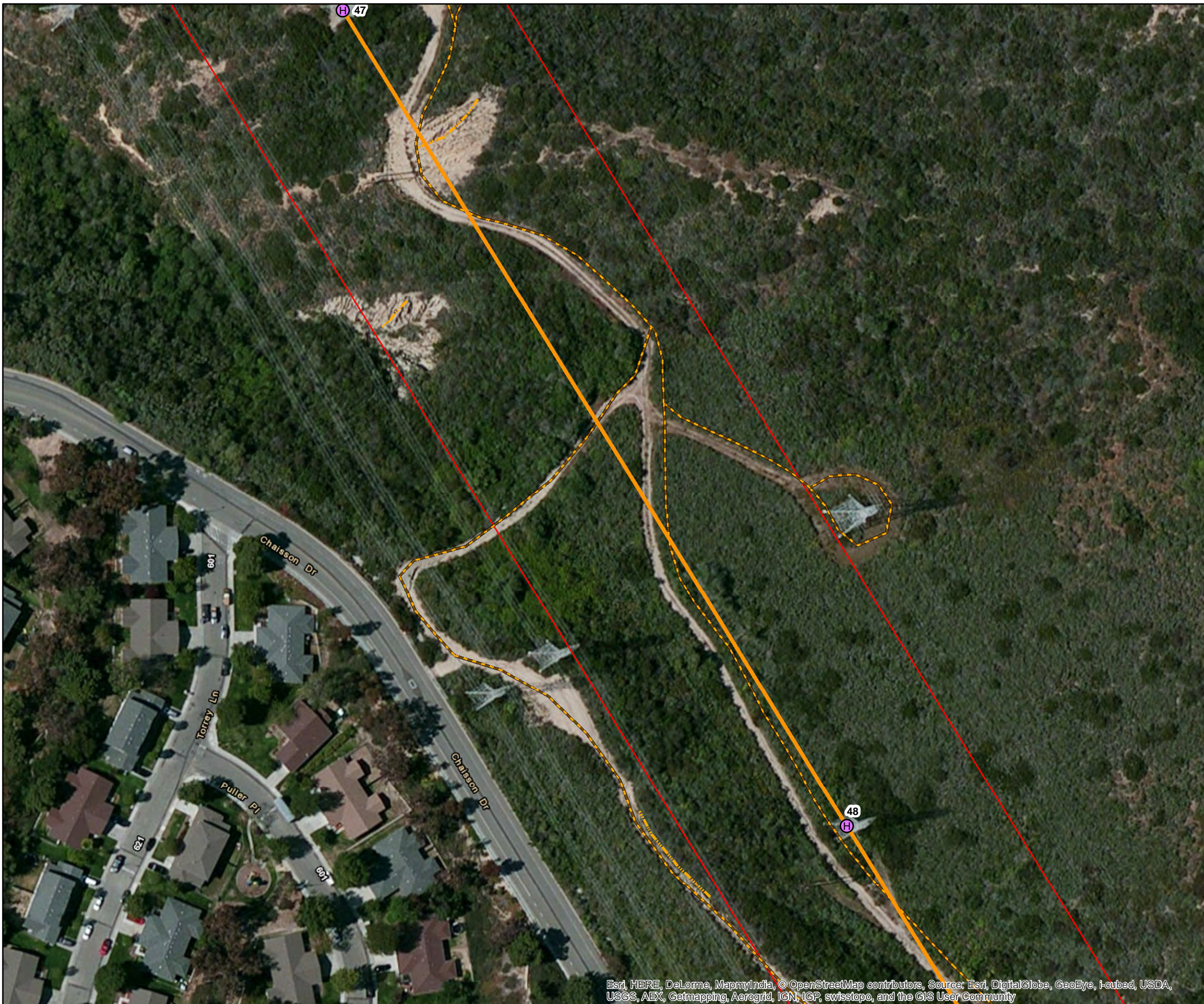
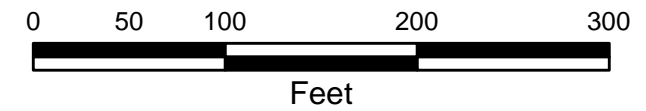
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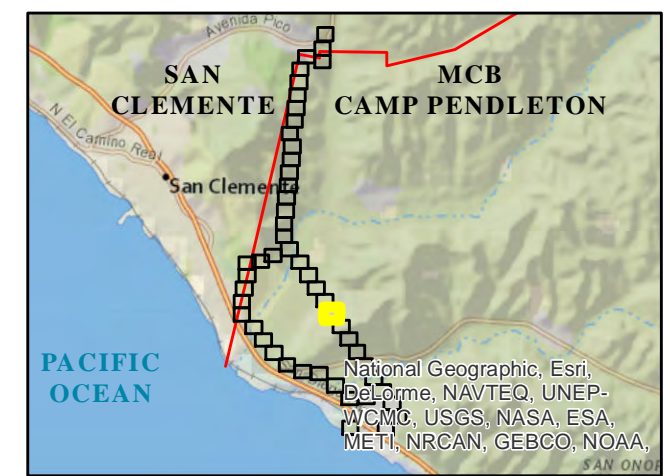
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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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Ⓣ Guard Structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
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— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
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— Staging Yards	
— Survey Corridor	



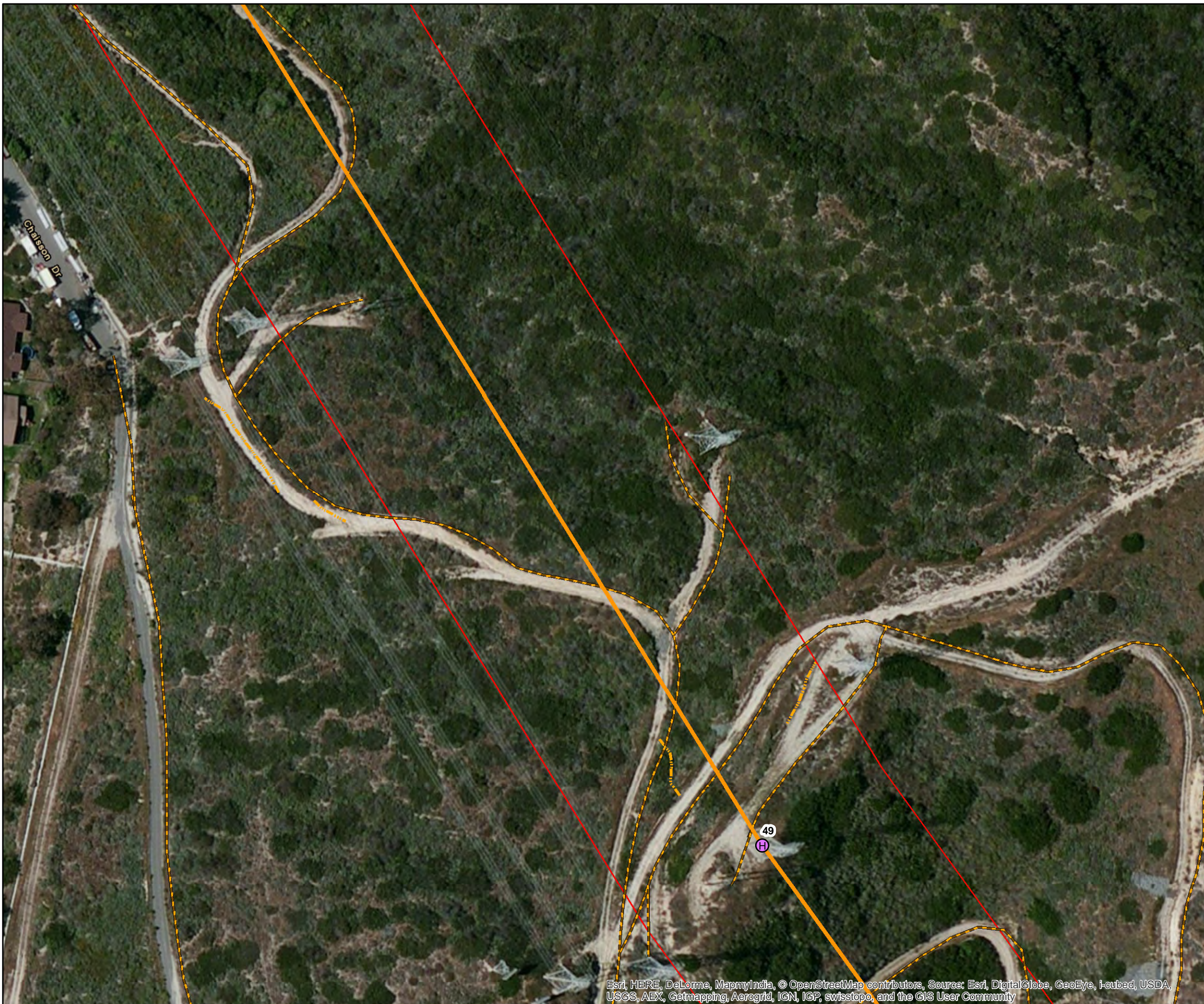
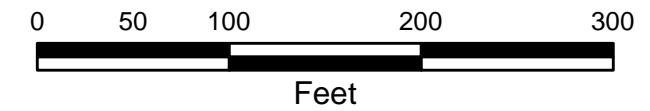
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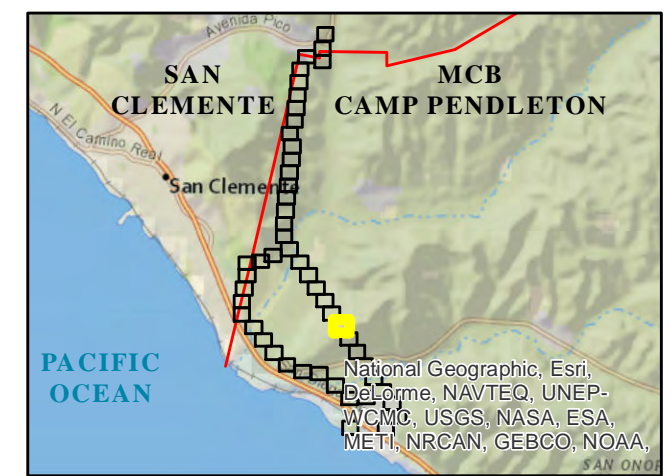
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 Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



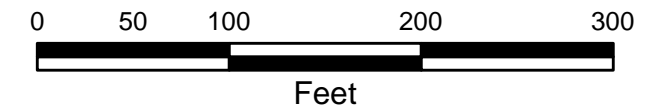
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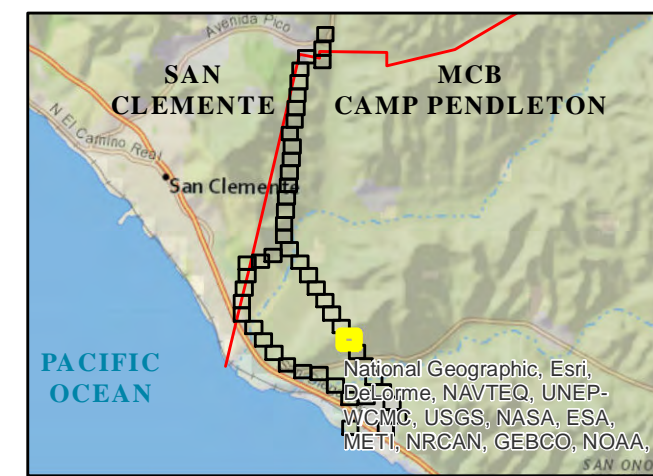
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 Aquatic Delineation Maps

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LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
Ⓛ Direct Bury	▲ Culvert/Storm Drain
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— Access_allowed	— CDFW Riparian
Work/Turnaround/Staging Areas	California Coastal Commission Wetland
Stringing Sites	
Staging Yards	
Survey Corridor	



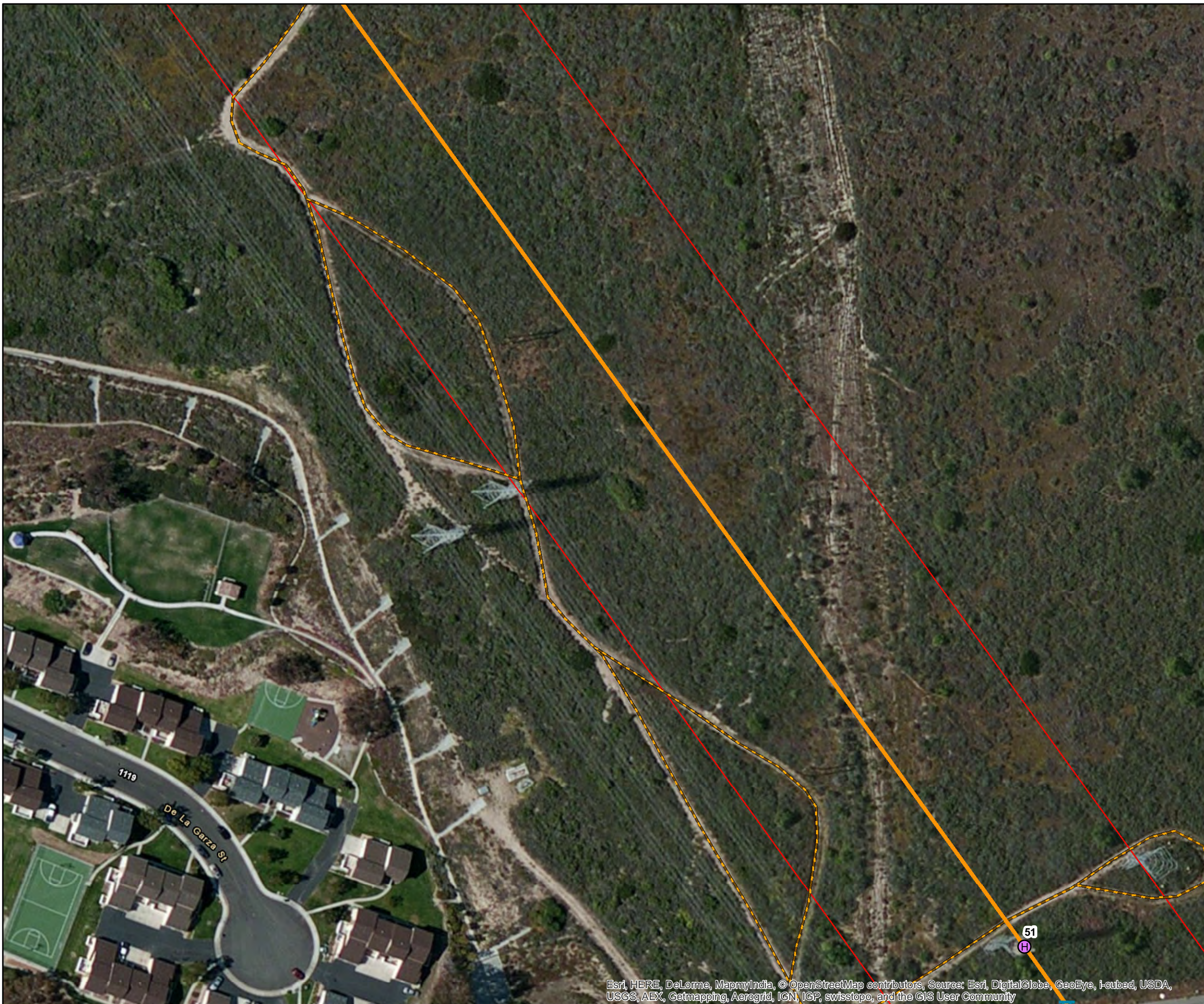
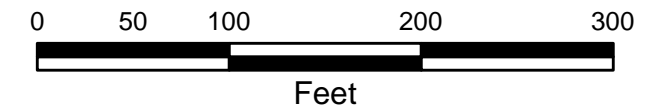
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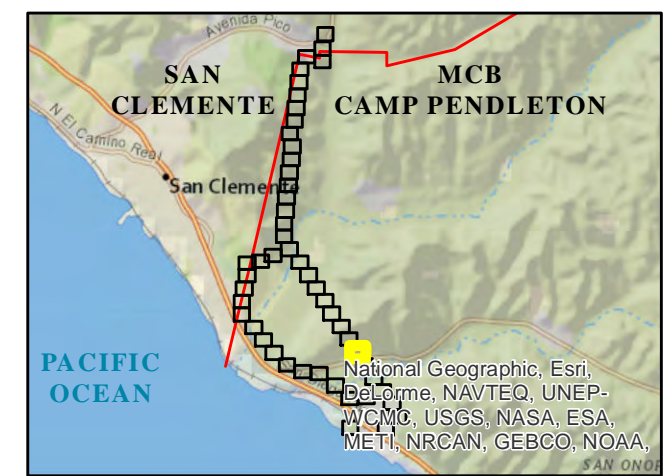
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 Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



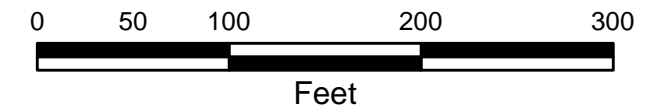
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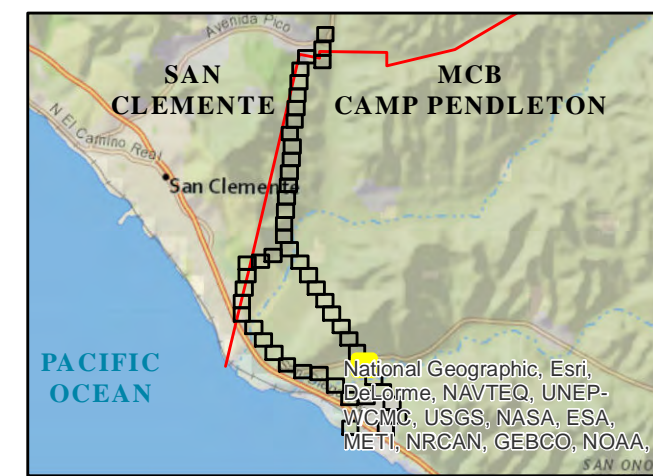
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 Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
Ⓛ Direct Bury	▲ Culvert/Storm Drain
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Overhead Removal	ACOE Waters/RWQCB/CDFW
Proposed Route	ACOE Wetland/RWQCB
Underground Route	CDFW Streambed/RWQCB
Access_allowed	CDFW Riparian
Work/Turnaround/Staging Areas	California Coastal Commission Wetland
Stringing Sites	
Staging Yards	
Survey Corridor	



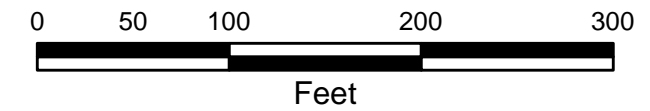
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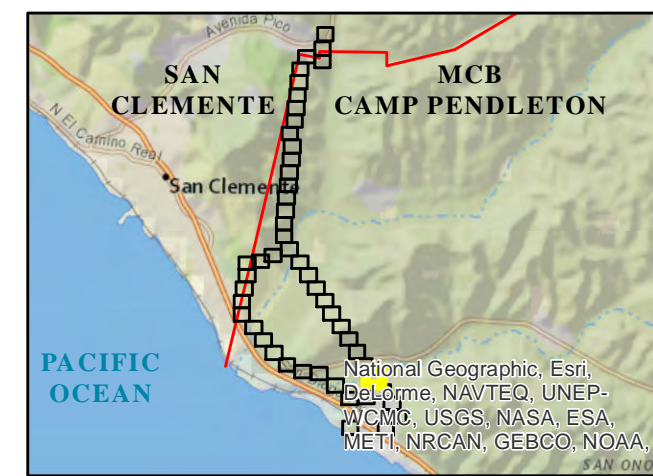
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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
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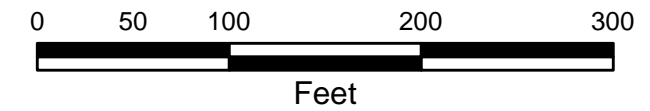
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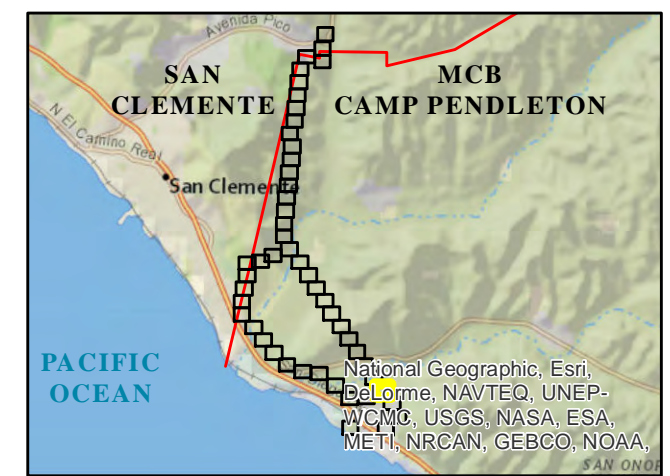
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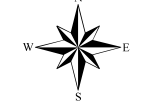
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LEGEND	
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Ⓢ Cable Pole	✱ Sample Points
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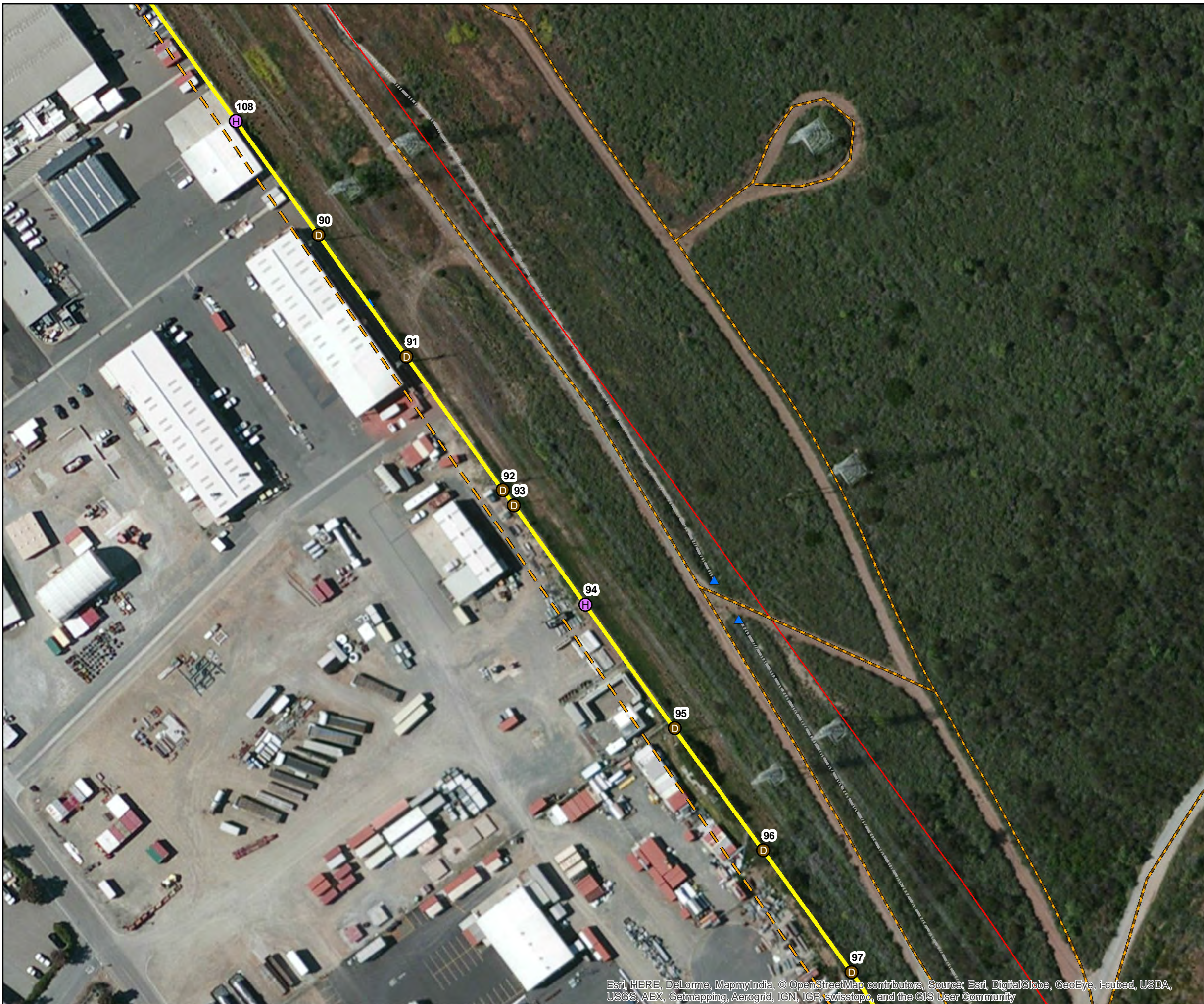
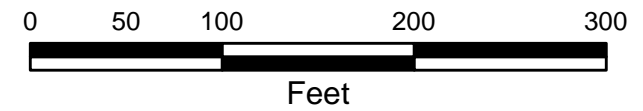
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1 inch = 100 feet @11" x 17"



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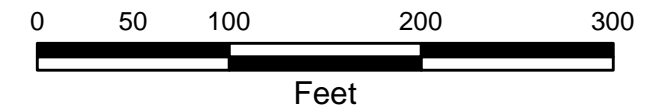
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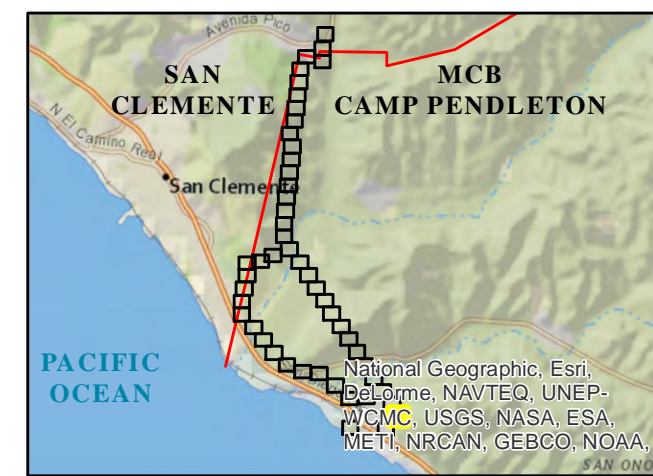
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Staging Yards	
Survey Corridor	



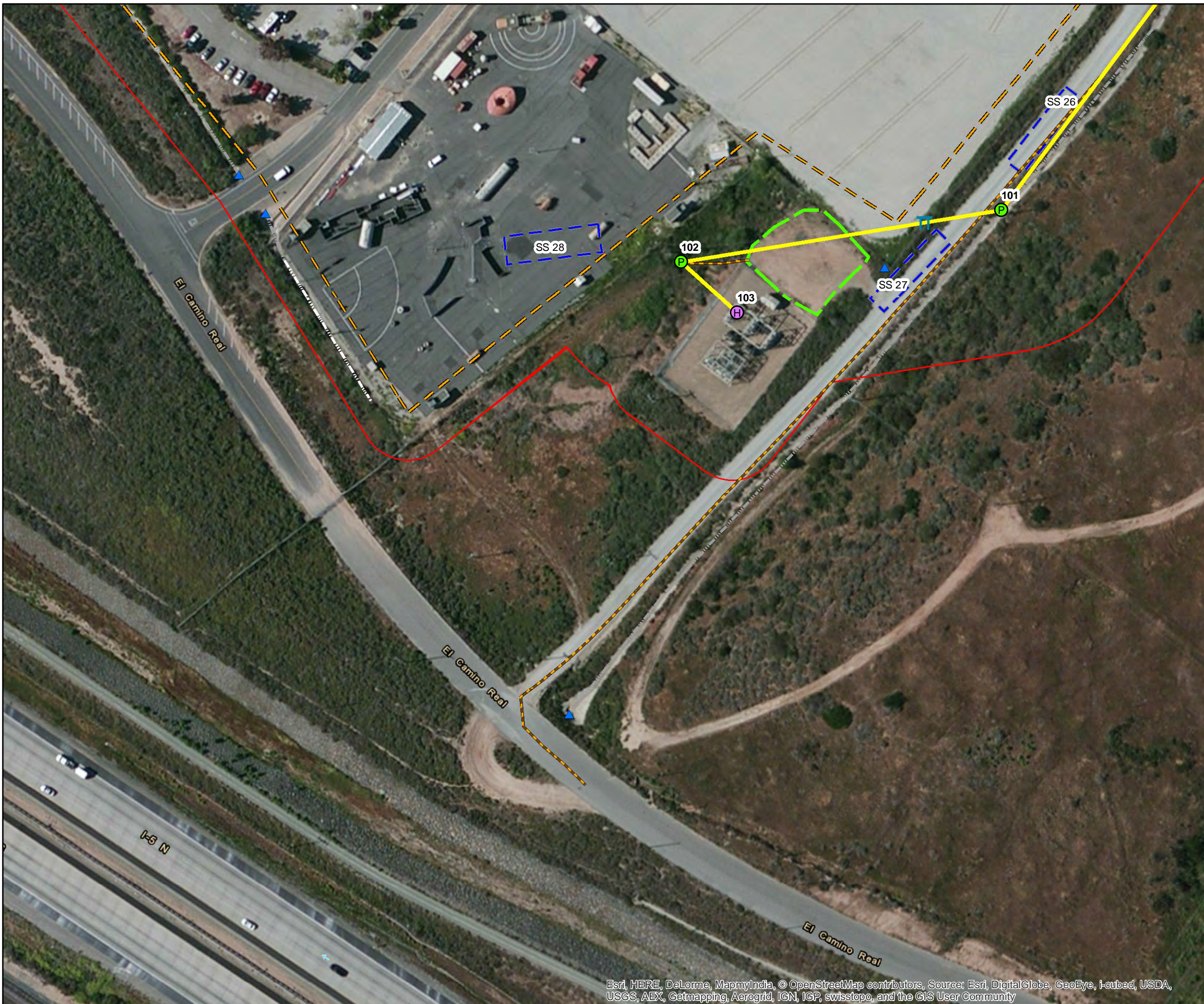
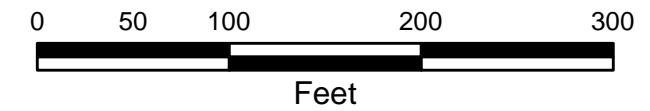
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 Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

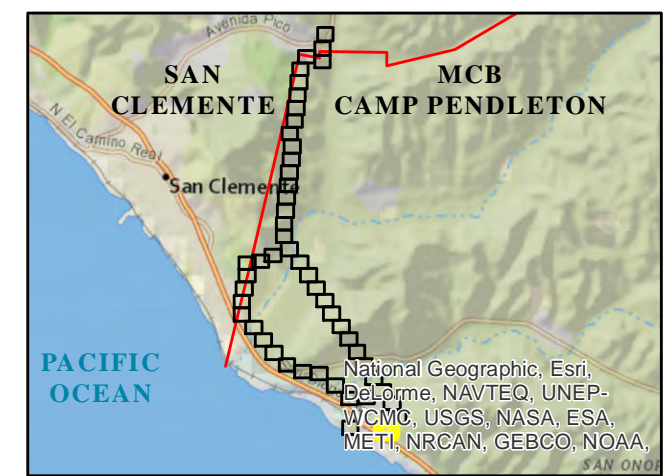
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
Ⓜ 69kV Underground Vault	— Swale (Non-jurisdictional)
Ⓣ Guard Structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
— Proposed Route	— ACOE Wetland/RWQCB
— Underground Route	— CDFW Streambed/RWQCB
— Access Allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



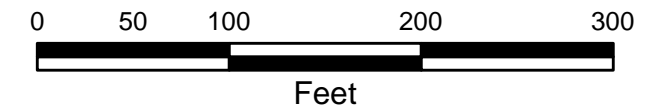
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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
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ⓓⓓ Direct Bury Multiple	Delineated Feature
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— Stringing Sites	
— Staging Yards	
— Survey Corridor	



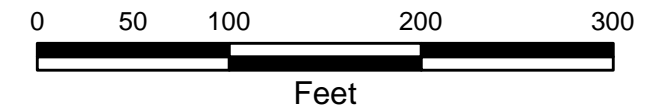
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Aquatic Delineation Maps

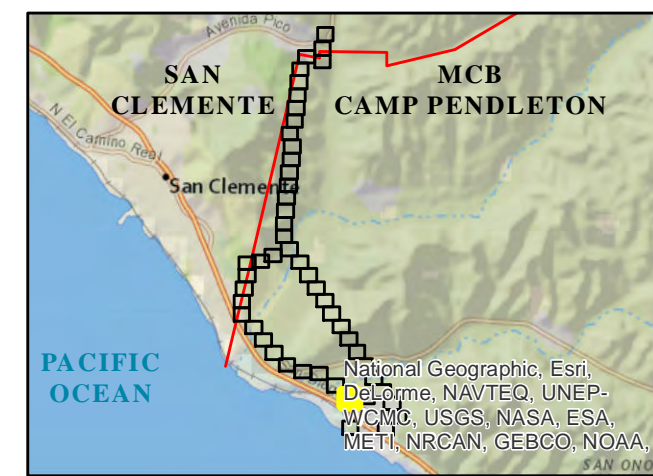
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Delineation Results
⊙ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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— Underground Route	— CDFW Streambed/RWQCB
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— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



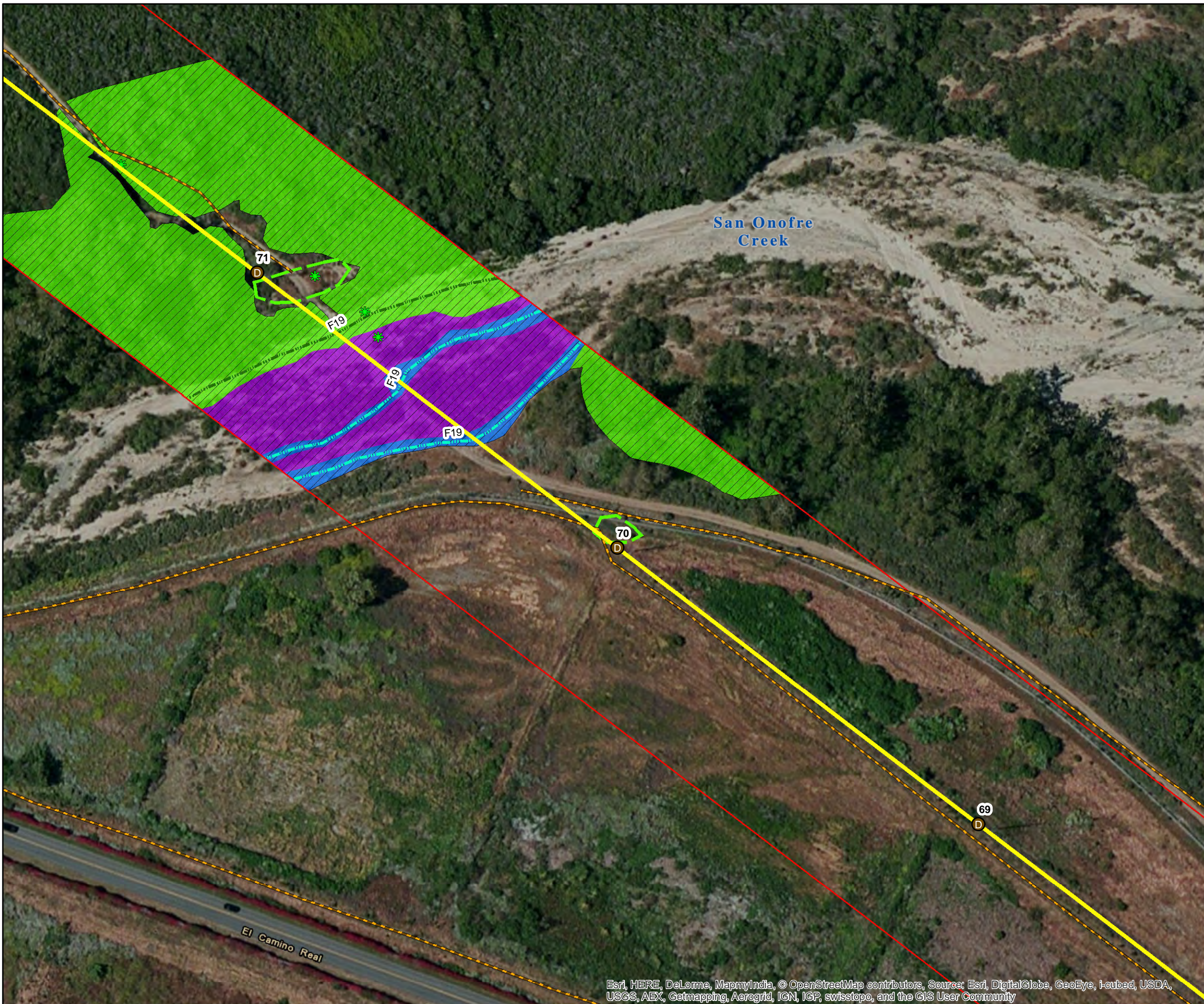
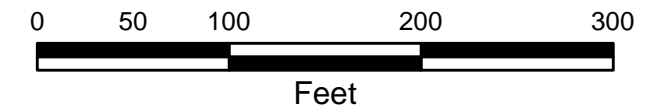
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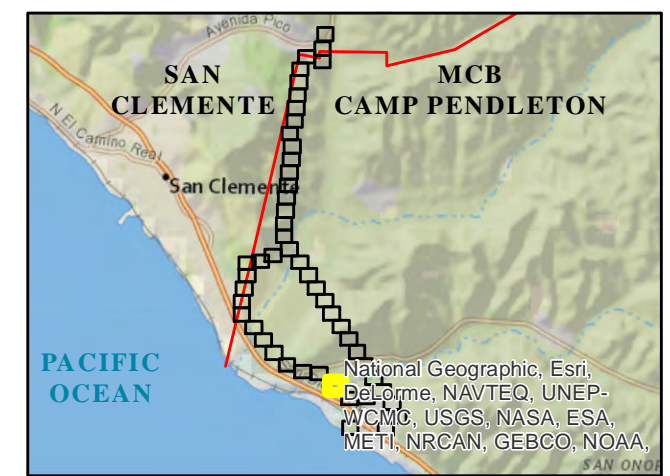
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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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69kV Underground Vault	— Swale (Non-jurisdictional)
TT Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	ACOE Wetland/RWQCB/CDFW
— Overhead Removal	ACOE Waters/RWQCB/CDFW
— Proposed Route	ACOE Wetland/RWQCB
— Underground Route	CDFW Streambed/RWQCB
— Access_allowed	CDFW Riparian
Work/Turnaround/Staging Areas	California Coastal Commission Wetland
Stringing Sites	
Staging Yards	
Survey Corridor	



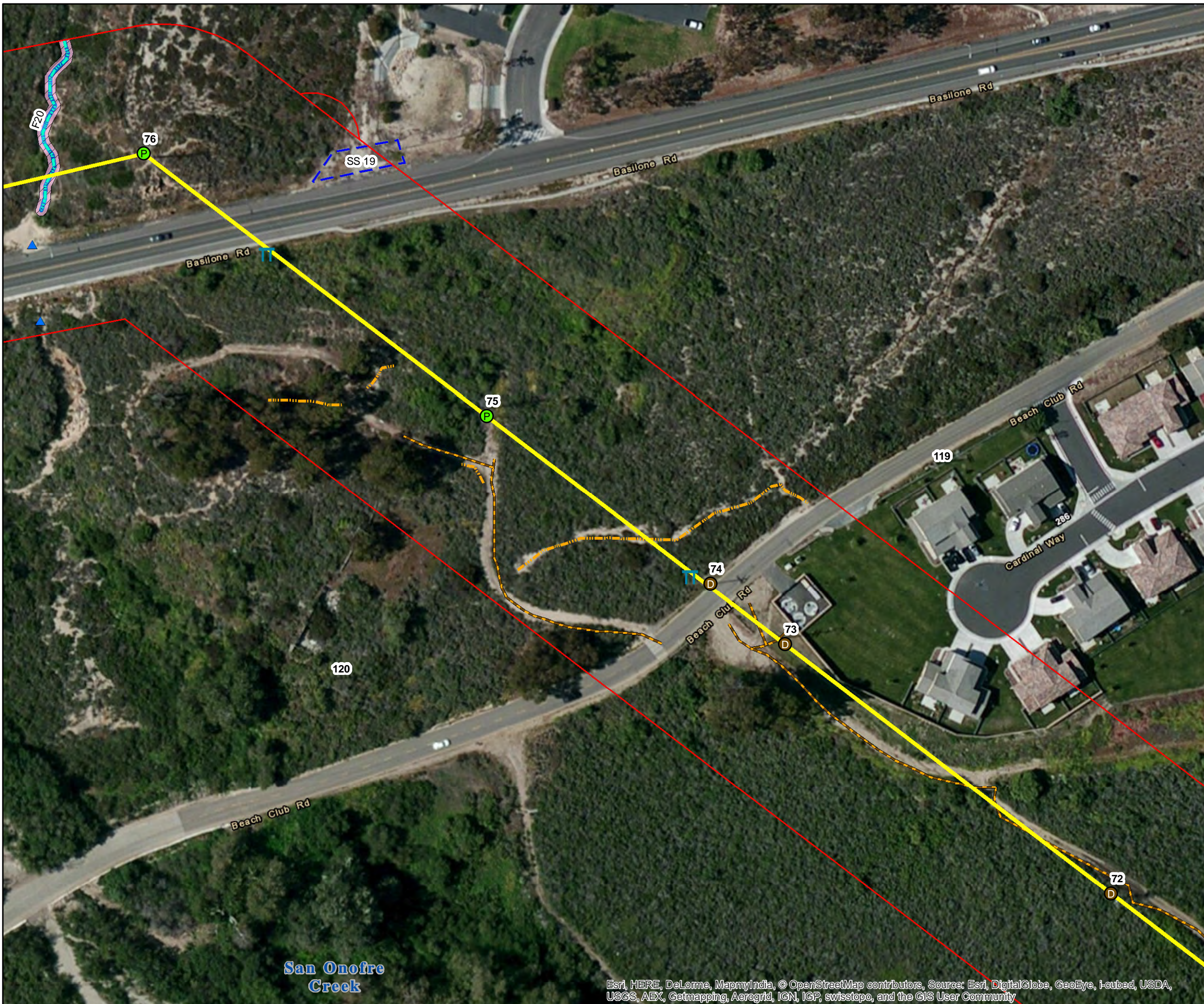
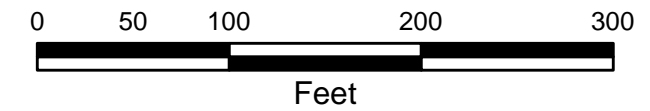
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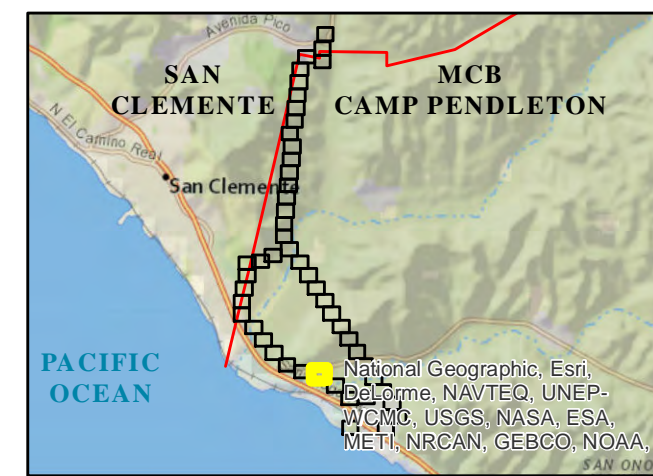
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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
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— Overhead Route	— ACOE Wetland/RWQCB/CDFW
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— Underground Route	— CDFW Streambed/RWQCB
— Access Allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



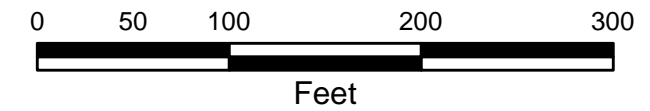
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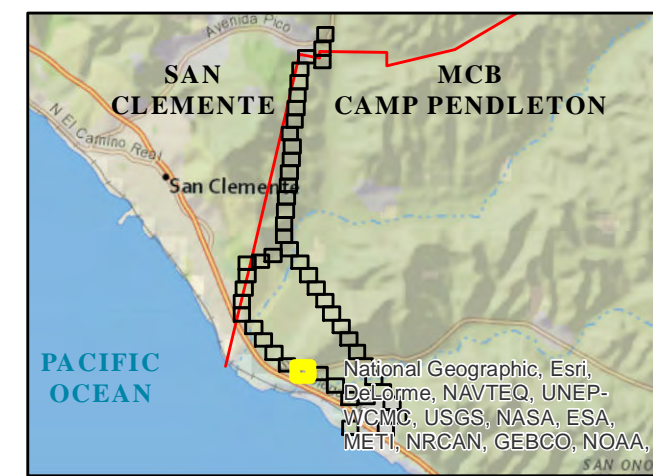
25240 TL695/6971
Reconductor Project
Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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— Access_allowed	— CDFW Riparian
Work/Turnaround/Staging Areas	California Coastal Commission Wetland
Stringing Sites	
Staging Yards	
Survey Corridor	



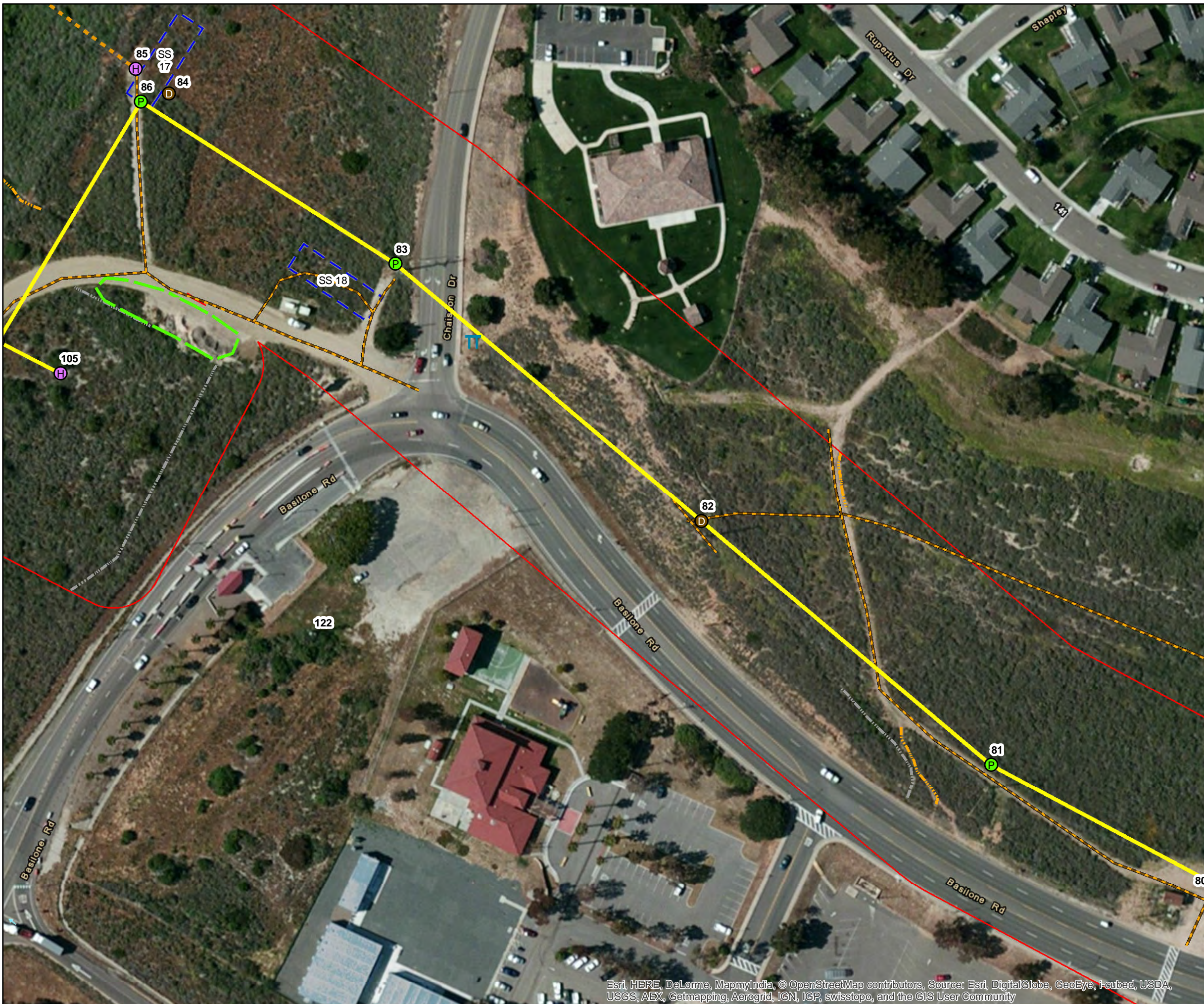
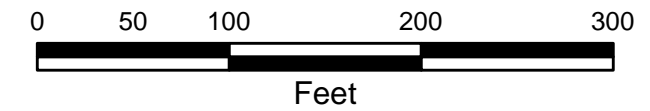
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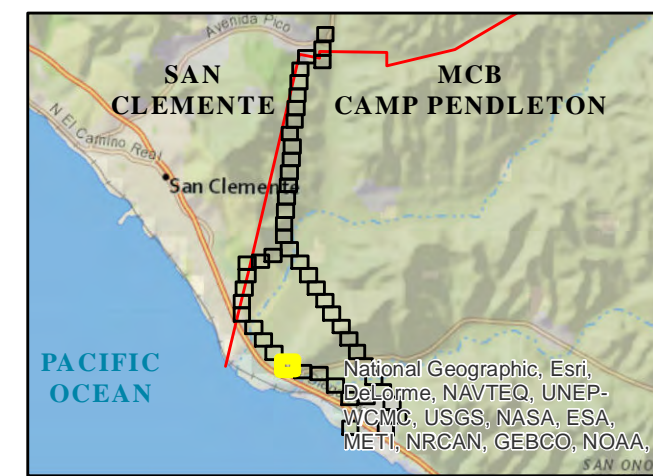
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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
⊙ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
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— Overhead Route	— ACOE Wetland/RWQCB/CDFW
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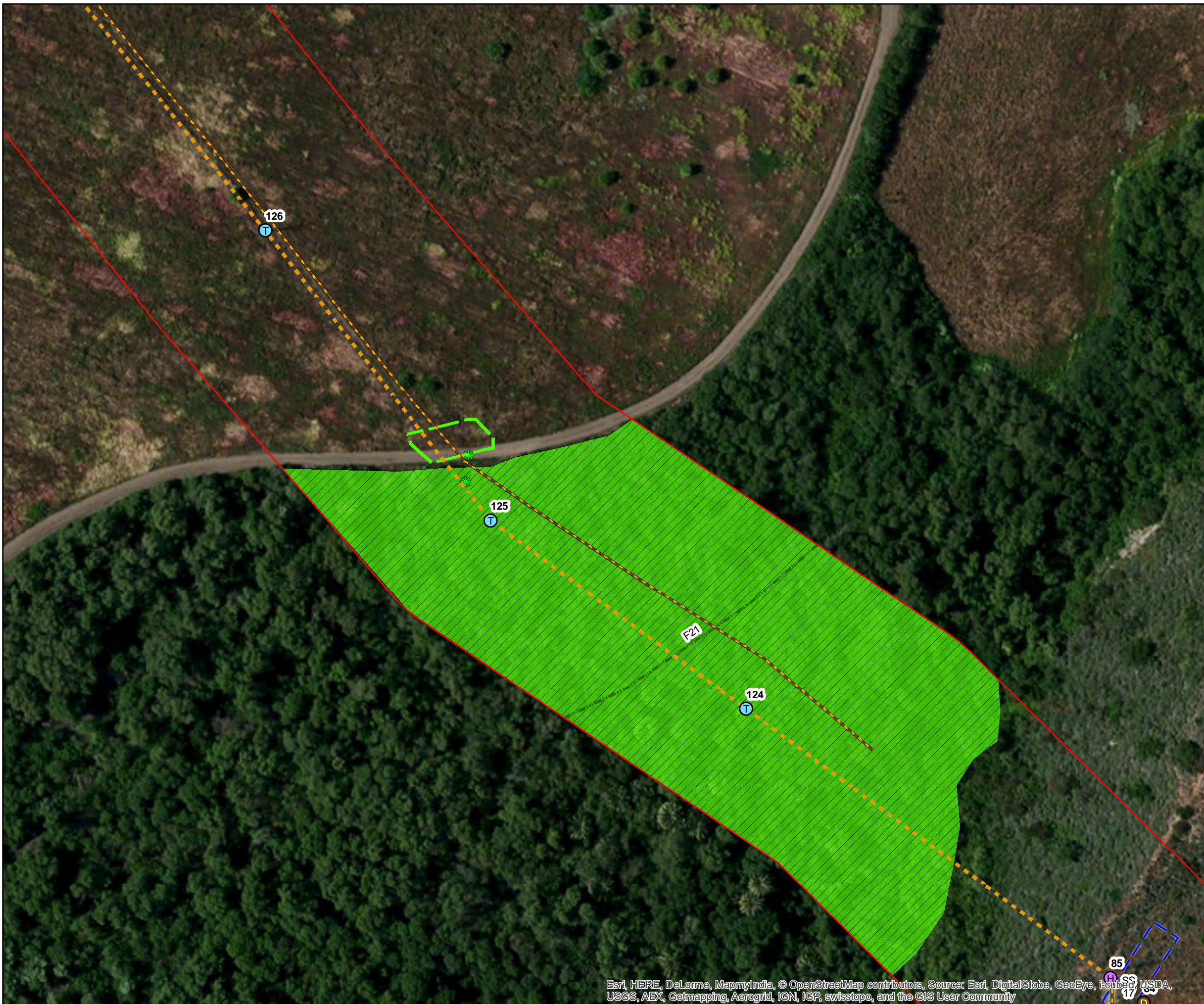
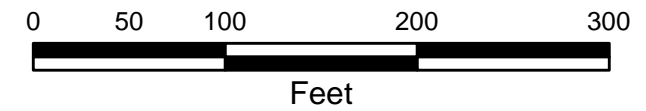
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1 inch = 100 feet @11" x 17"



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

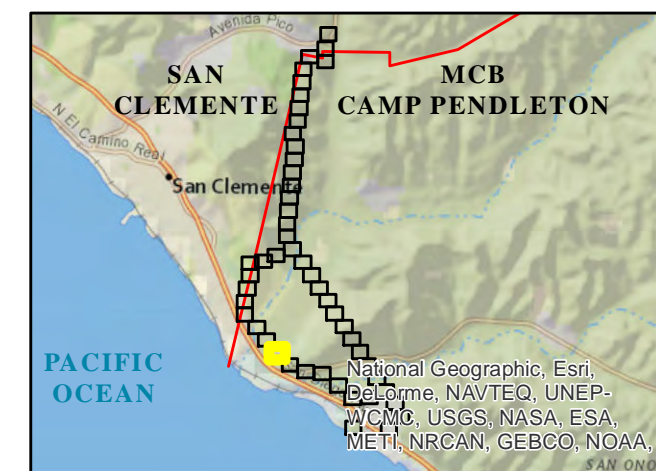
- Sample Points
- Culvert/Storm Drain

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



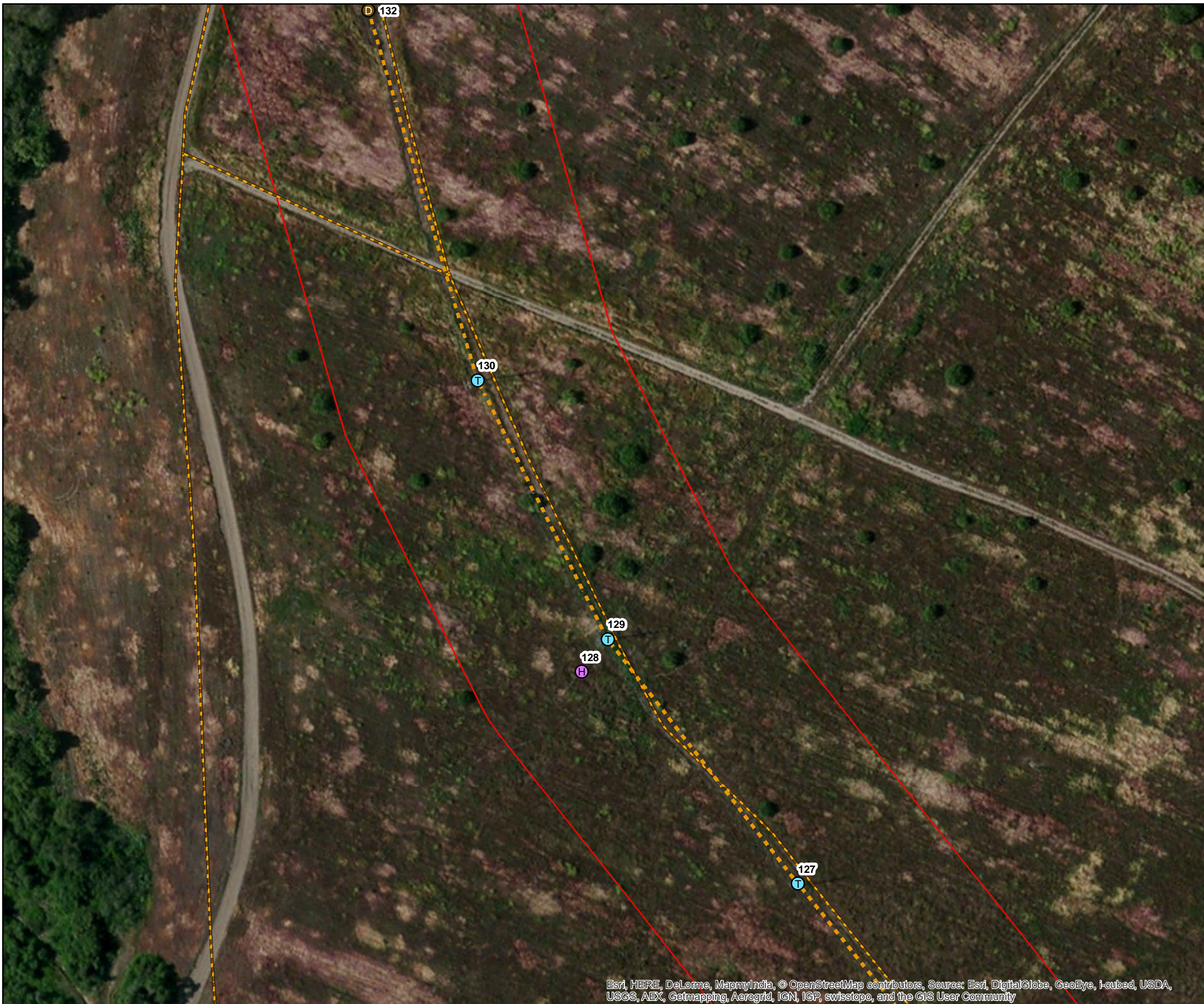
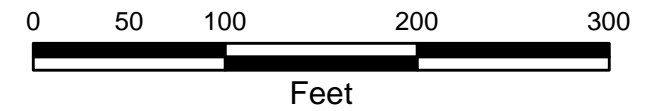
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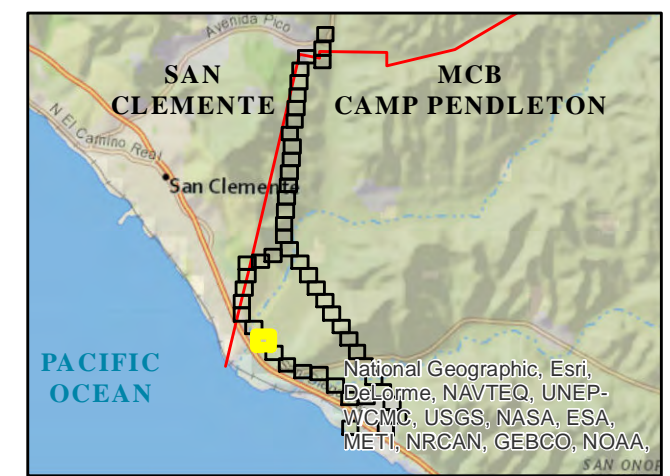
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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
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— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



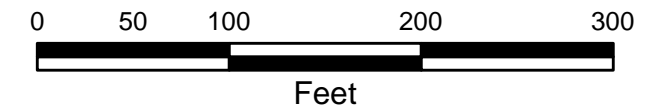
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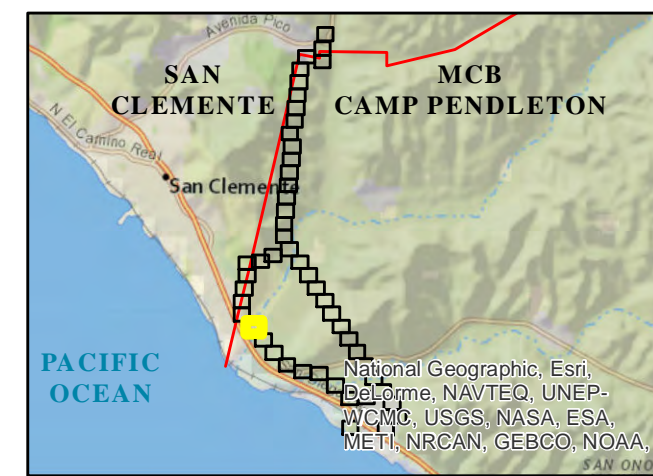
25240 TL695/6971 Reconductor Project Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



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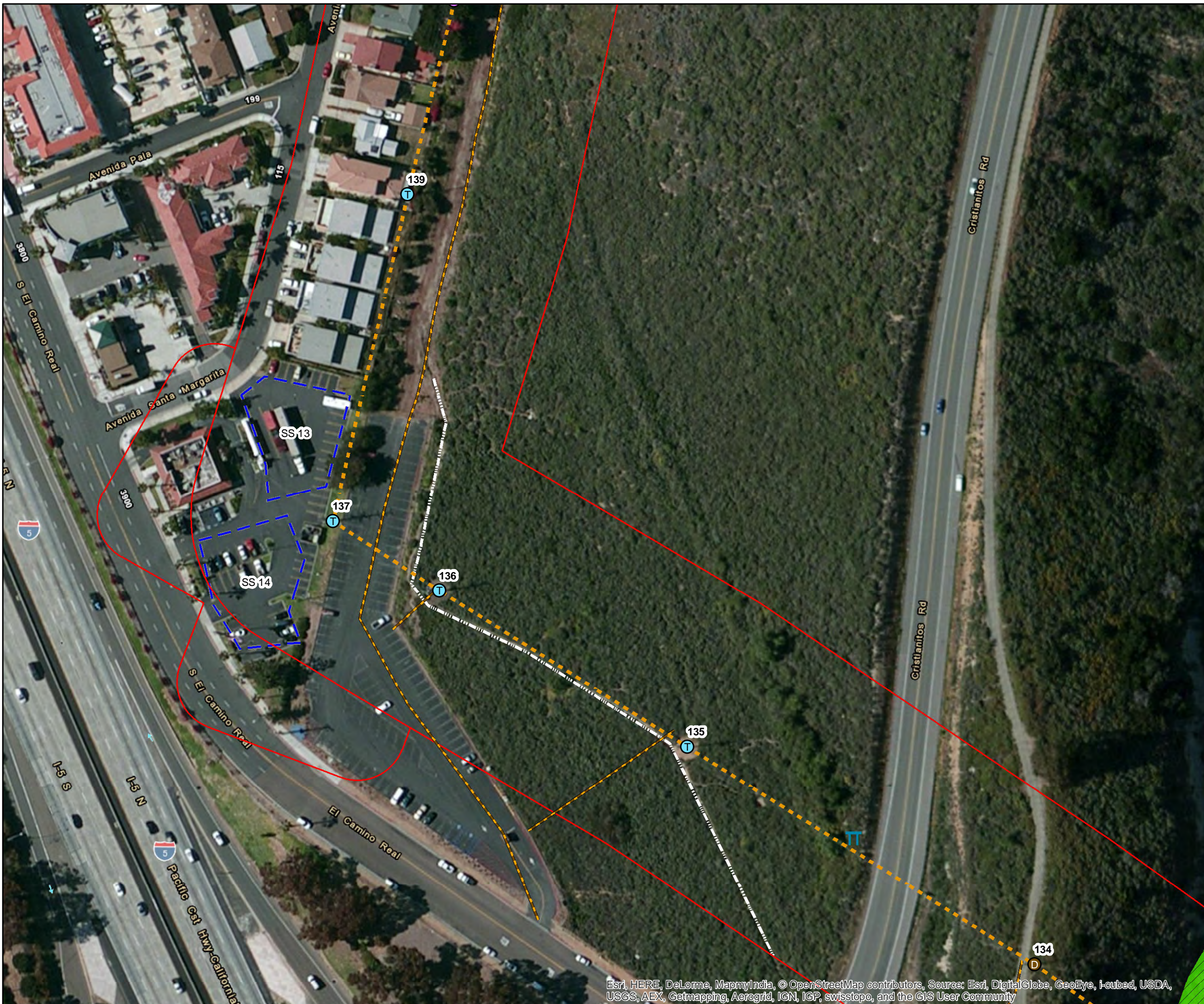
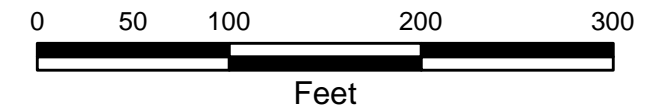
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1 inch = 100 feet @11" x 17"



LEGEND

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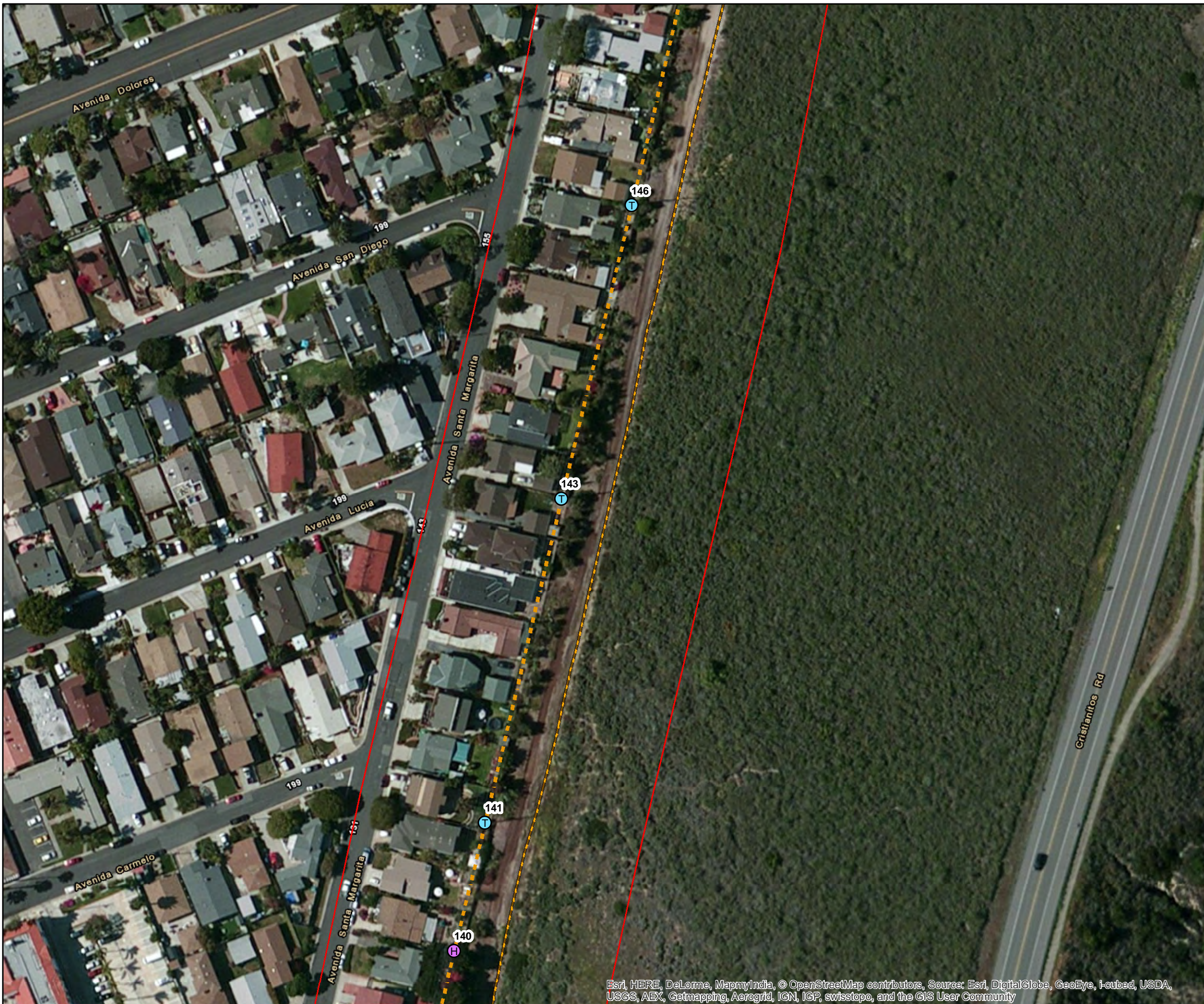
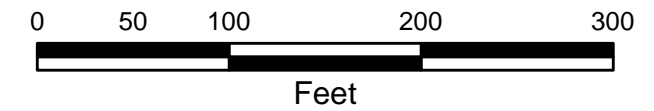
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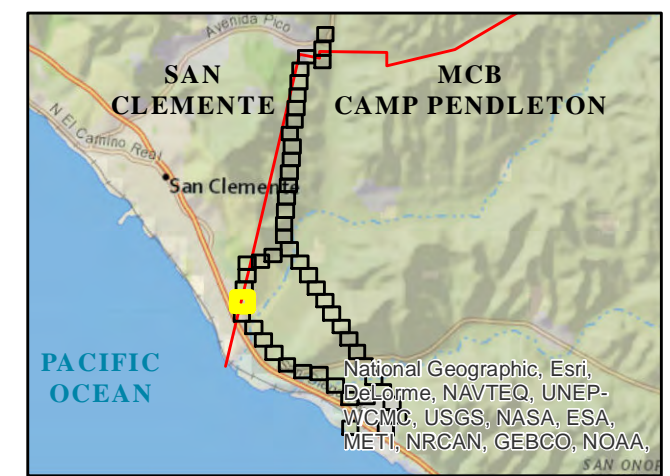
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Project Utility Poles

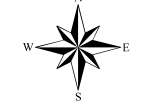
- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
- Top Pole
- 69kV Underground Vault
- Guard structure
- Overhead Route
- Overhead Removal
- Proposed Route
- Underground Route
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- 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
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 - ACOE Waters/RWQCB/CDFW
 - ACOE Wetland/RWQCB
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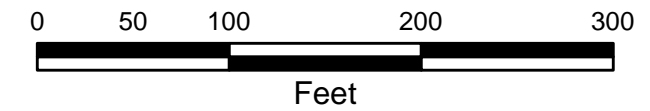
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Cable Pole
- Direct Bury
- Direct Bury Multiple
- Overhead Work
- Pier Foundation
- Pier Foundation Multiple
- Remove From Service
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- Overhead Route
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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



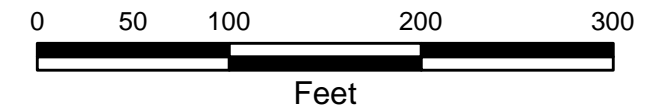
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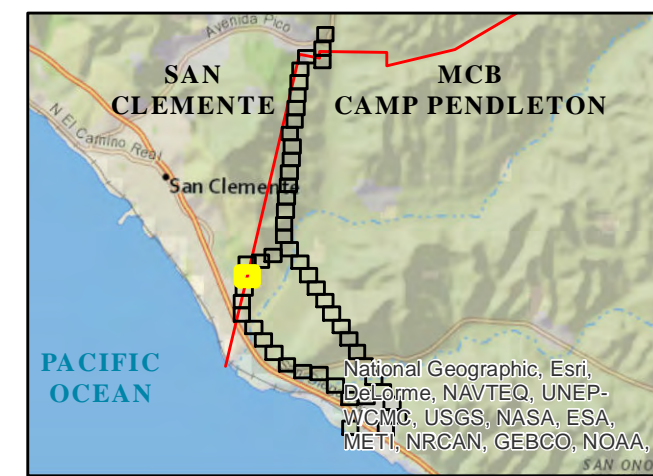
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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
ⓉⓉ 69kV Underground Vault	— Swale (Non-jurisdictional)
ⓉⓉ Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
— Proposed Route	— ACOE Wetland/RWQCB
— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



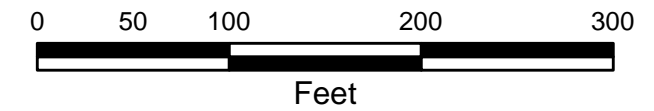
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1 inch = 100 feet @11" x 17"



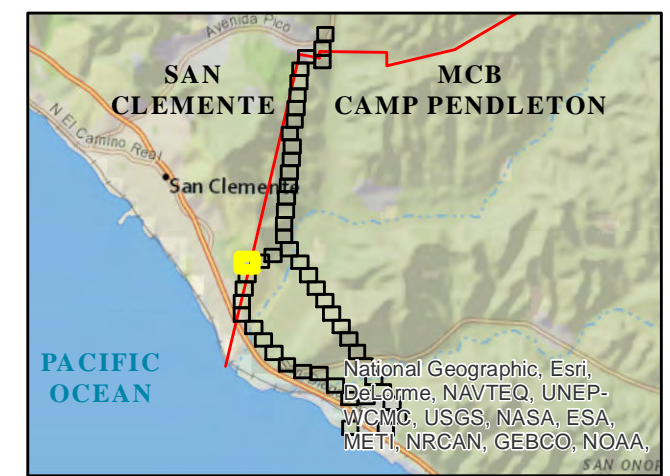
LEGEND

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



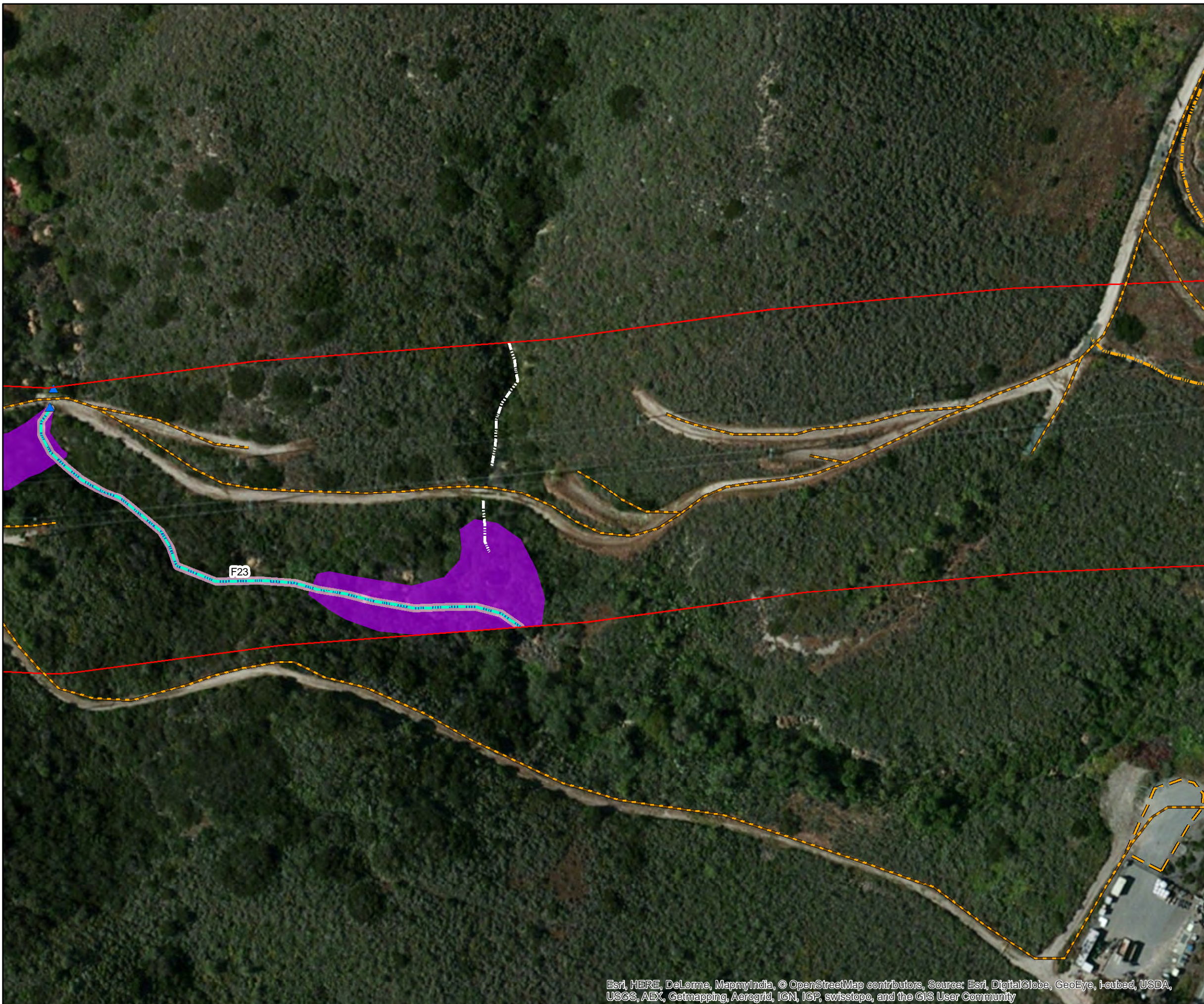
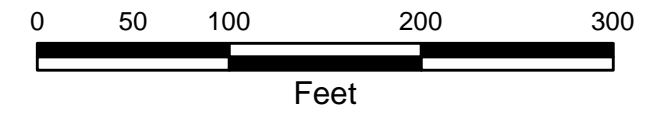
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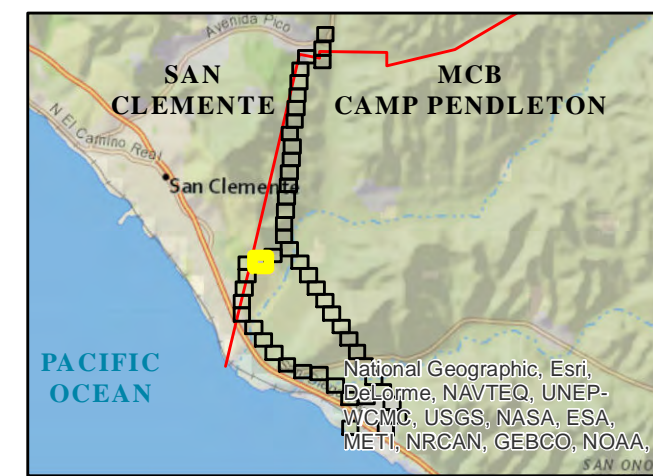
25240 TL695/6971
 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	✱ Sample Points
Ⓛ Direct Bury	▲ Culvert/Storm Drain
ⓁⓁ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
69kV Undergound Vault	— Swale (Non-jurisdictional)
TT Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
— Proposed Route	— ACOE Wetland/RWQCB
— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
Work/Turnaround/Staging Areas	California Coastal Commission Wetland
Stringing Sites	
Staging Yards	
Survey Corridor	



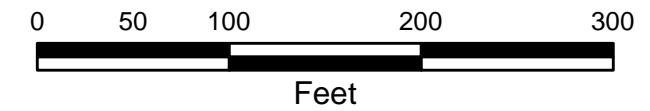
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Reconductor Project
Aquatic Delineation Maps

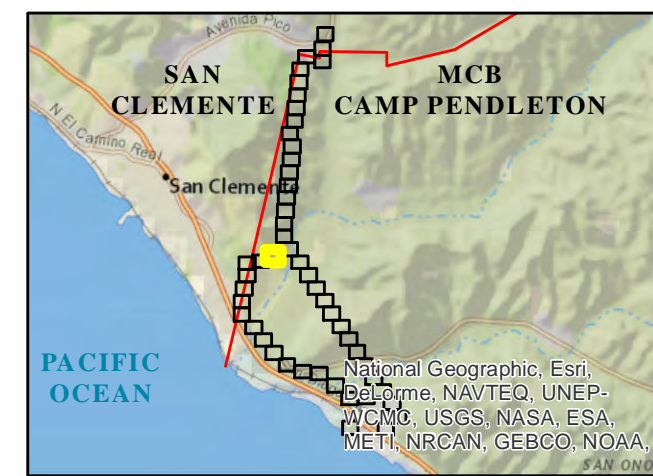
Page 49 of 51

1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Delineation Results
⊙ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
ⓉⓉ 69kV Underground Vault	— Swale (Non-jurisdictional)
ⓉⓉ Guard_structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
— Proposed Route	— ACOE Wetland/RWQCB
— Underground Route	— CDFW Streambed/RWQCB
— Access_allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



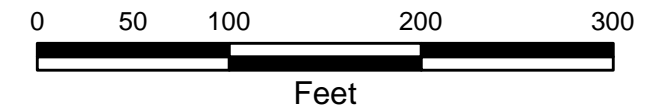
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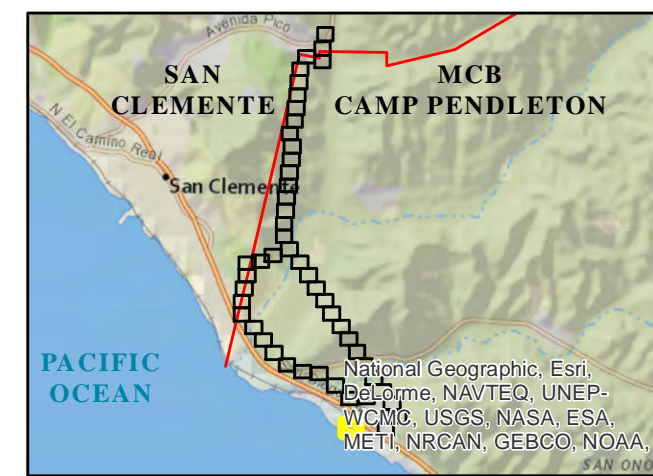
25240 TL695/6971 Reconductor Project Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
⊙ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
ⓉⓉ 69kV Underground Vault	— Swale (Non-jurisdictional)
ⓉⓉ Guard Structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
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— Underground Route	— CDFW Streambed/RWQCB
— Access Allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	



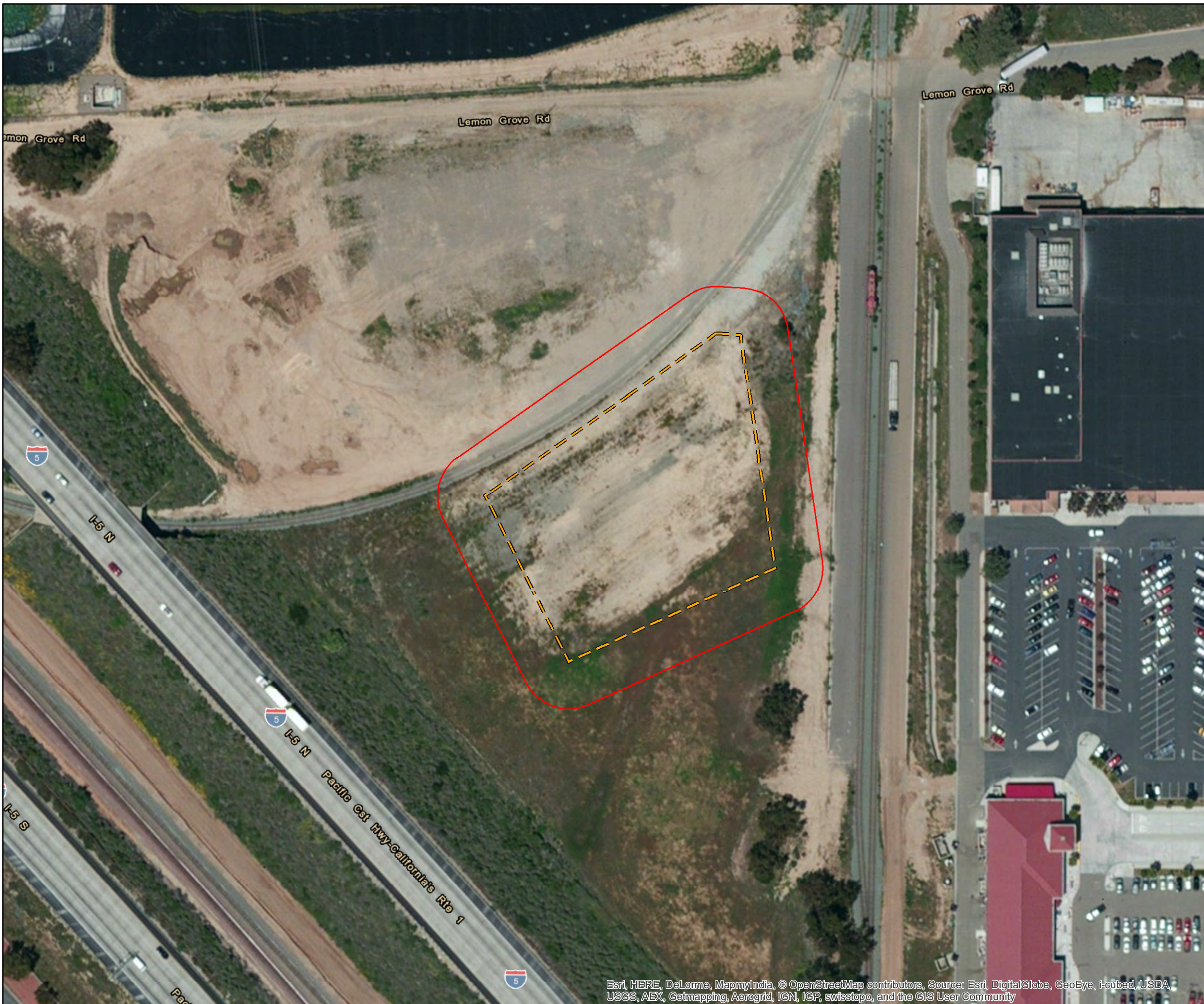
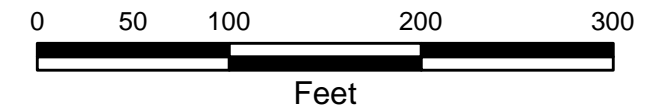
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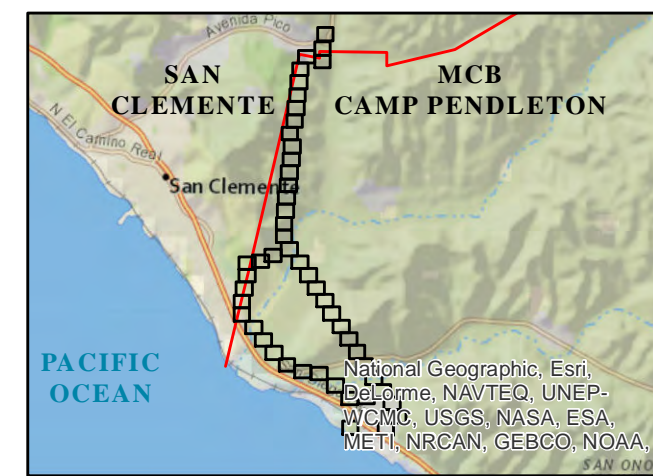
25240 TL695/6971 Reconductor Project Aquatic Delineation Maps

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1 inch = 100 feet @11" x 17"



LEGEND	
Project Utility Poles	Delineation Results
⊙ Cable Pole	✱ Sample Points
ⓓ Direct Bury	▲ Culvert/Storm Drain
ⓓⓓ Direct Bury Multiple	Delineated Feature
Ⓜ Overhead Work	— ACOE Waters/CDFW/RWQCB
Ⓟ Pier Foundation	— ACOE Wetland/CDFW/RWQCB
ⓅⓅ Pier Foundation Multiple	— Concrete ACOE Waters/CDFW/RWQCB
Ⓡ Remove From Service	— Concrete V-Ditch/Channel (Non-jurisdictional)
Ⓣ Top Pole	— Erosional Feature (Non-jurisdictional)
ⓉⓉ 69kV Underground Vault	— Swale (Non-jurisdictional)
ⓉⓉ Guard Structure	Jurisdictional Wetlands and Waters
— Overhead Route	— ACOE Wetland/RWQCB/CDFW
— Overhead Removal	— ACOE Waters/RWQCB/CDFW
— Proposed Route	— ACOE Wetland/RWQCB
— Underground Route	— CDFW Streambed/RWQCB
— Access Allowed	— CDFW Riparian
— Work/Turnaround/Staging Areas	— California Coastal Commission Wetland
— Stringing Sites	
— Staging Yards	
— Survey Corridor	

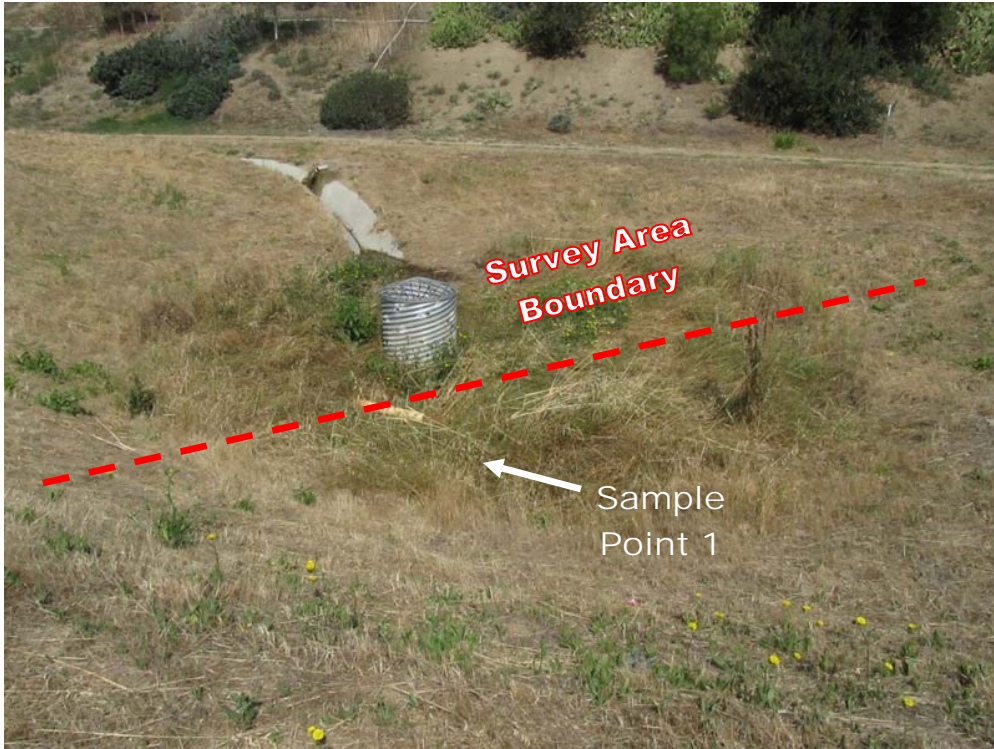


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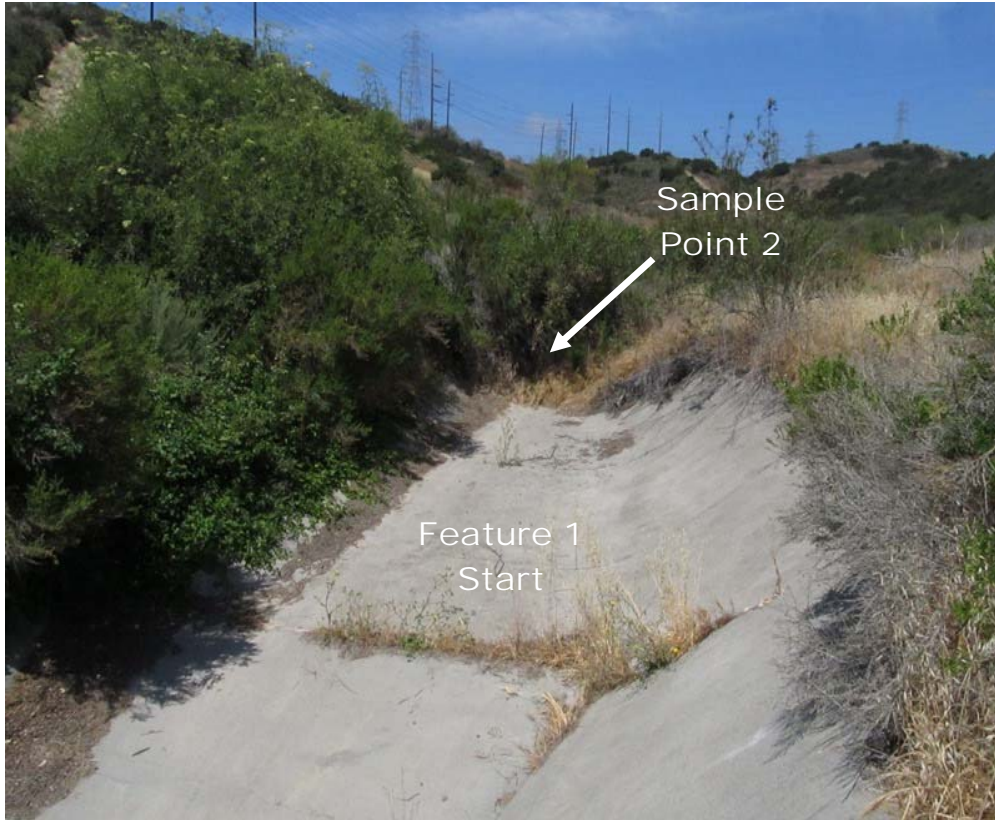
Appendix B – Photo Documentation



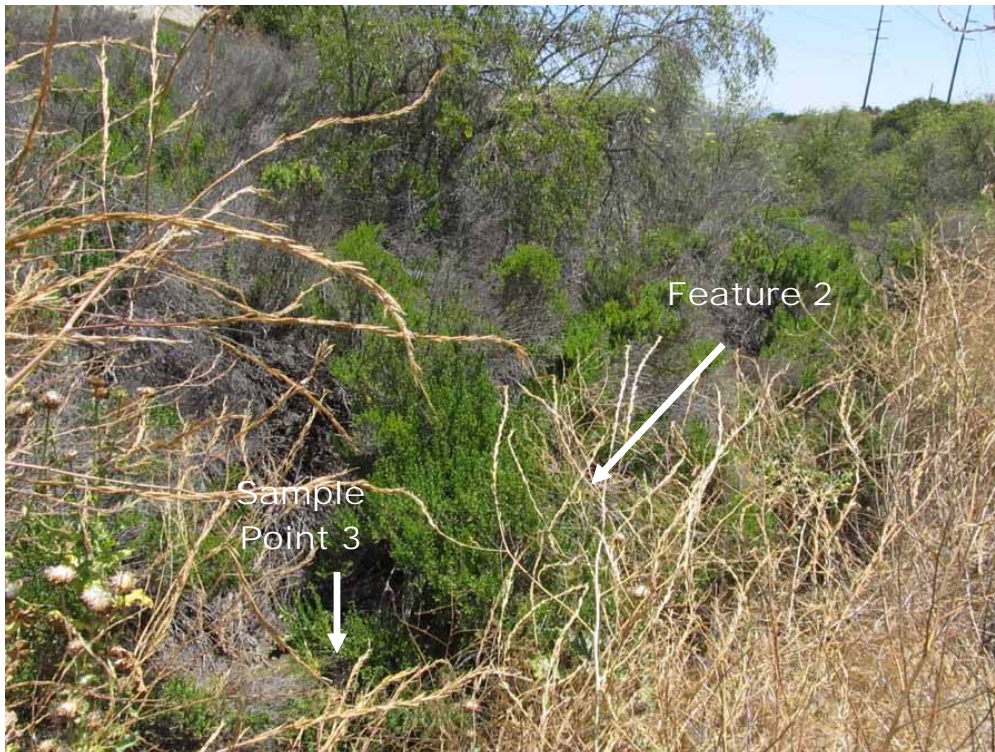
Photograph 1 (Northwest of Talega Staging Yard, Mapbook page 1): Sample Point 1 in basin on survey boundary. View west.



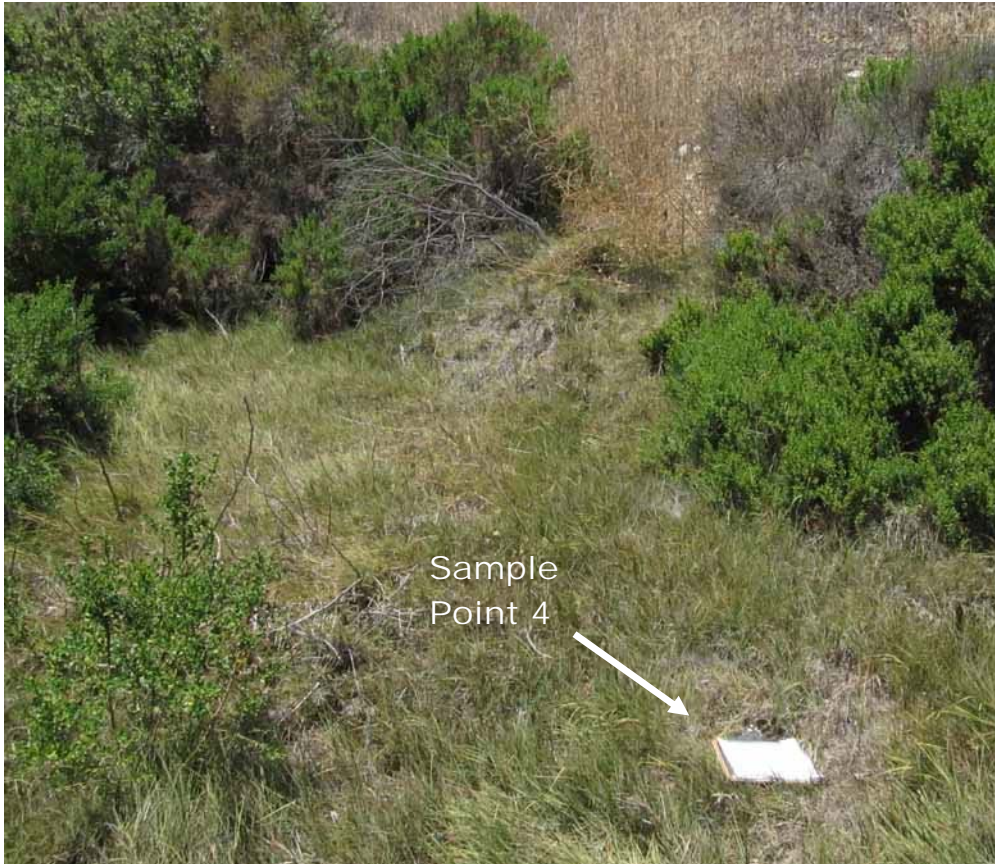
Photograph 2 (East of Talega Substation, Mapbook Pages 2 and 3): Feature 1, concrete channel east of Talega Substation. View east.



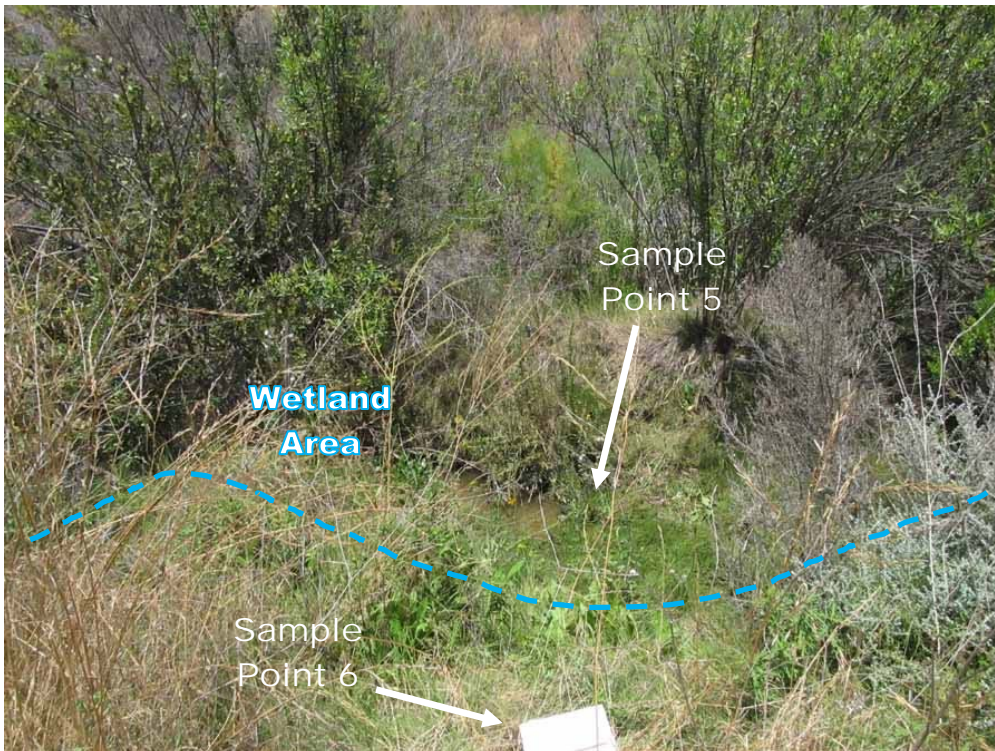
Photograph 3 (Northwest of Stringing Site 2, Mapbook Page 2): Feature 1 start, Sample Point 2, concrete channel west of Talega Substation. View west.



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



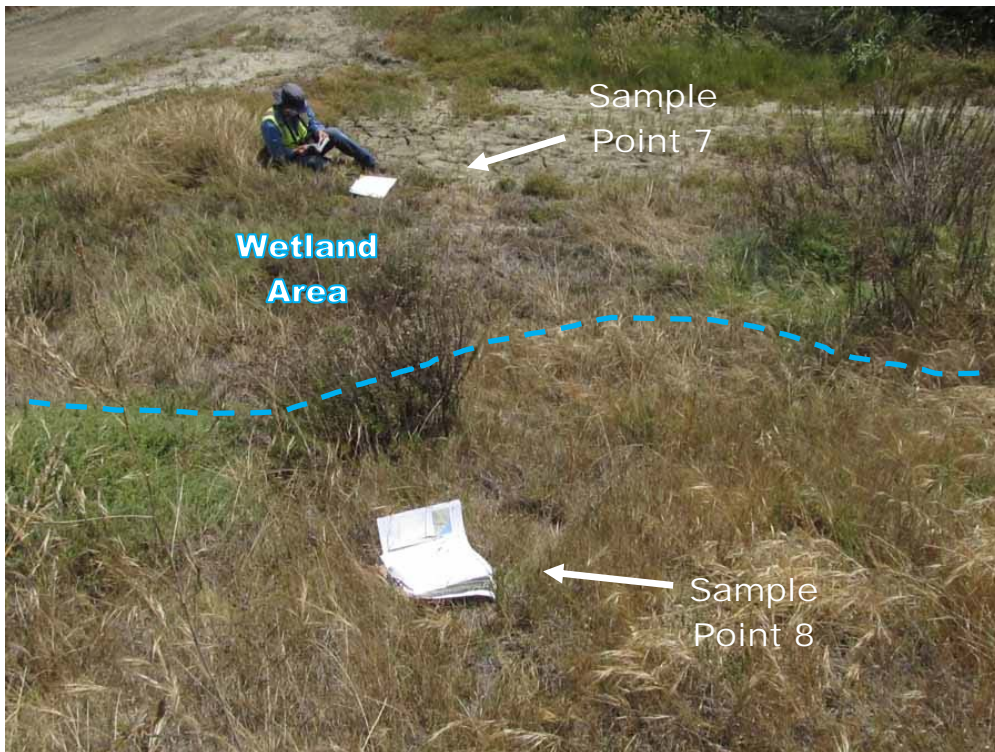
Photograph 5 (Southeast of Pole 14, Mapbook Page 4): Sample Point 4, swale. View northwest.



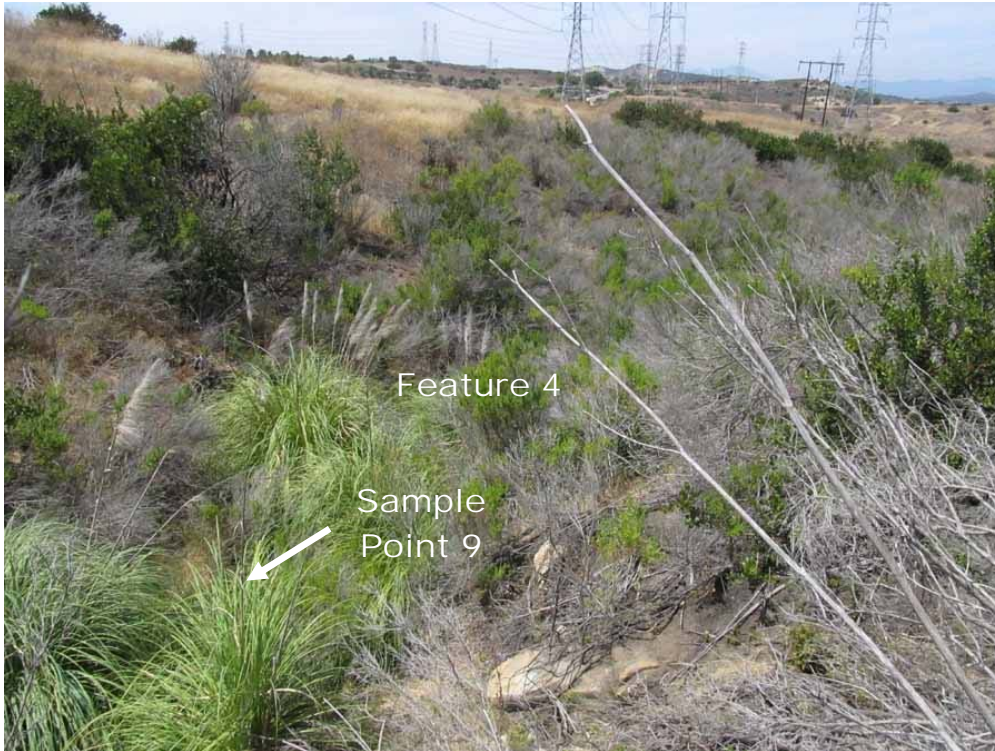
Photograph 6 (Between Pole 16 and Pole 15, Mapbook Page 5): Feature 3, east of access road, Sample Points 5 and 6. View northwest.



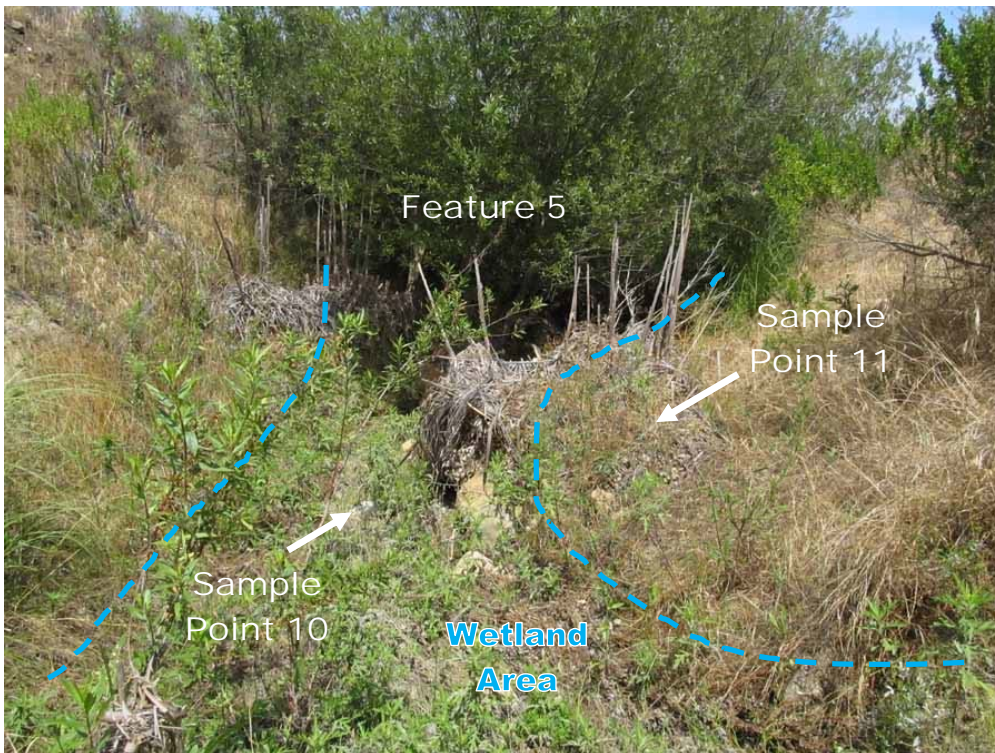
Photograph 7 (Between Pole 16 and Pole 15, Mapbook Page 5): Feature 3, west of access road showing southern willow scrub. View west.



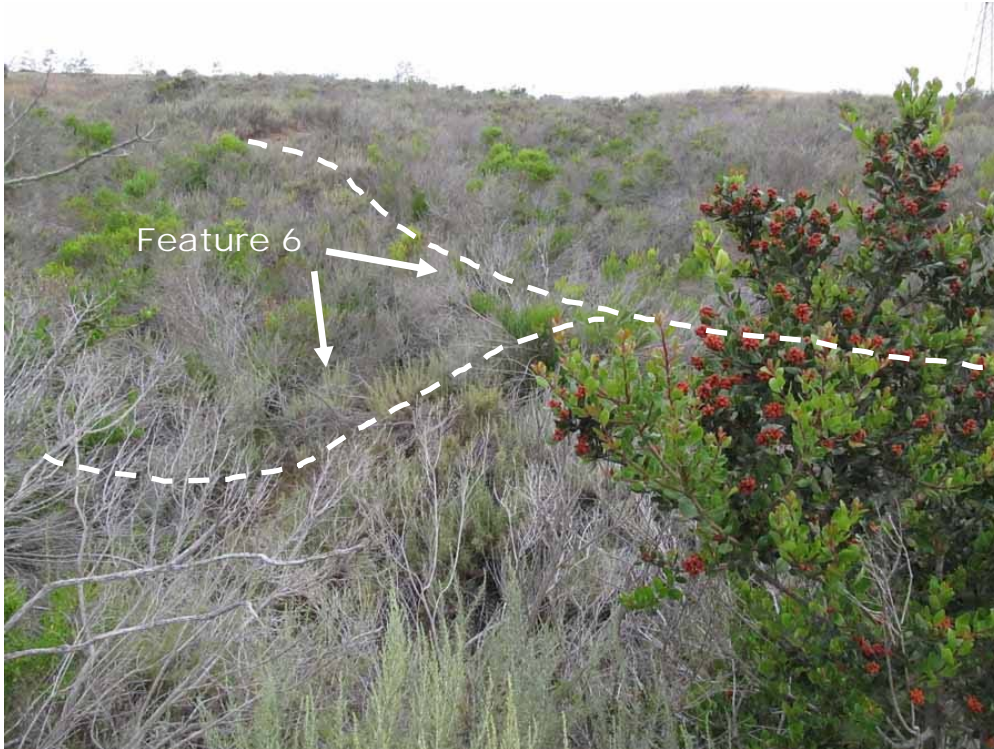
Photograph 8 (Between Pole 16 and Pole 15, Mapbook Page 5): Feature 3, Sample Points 7 and 8, alkali marsh adjacent to access road. View south.



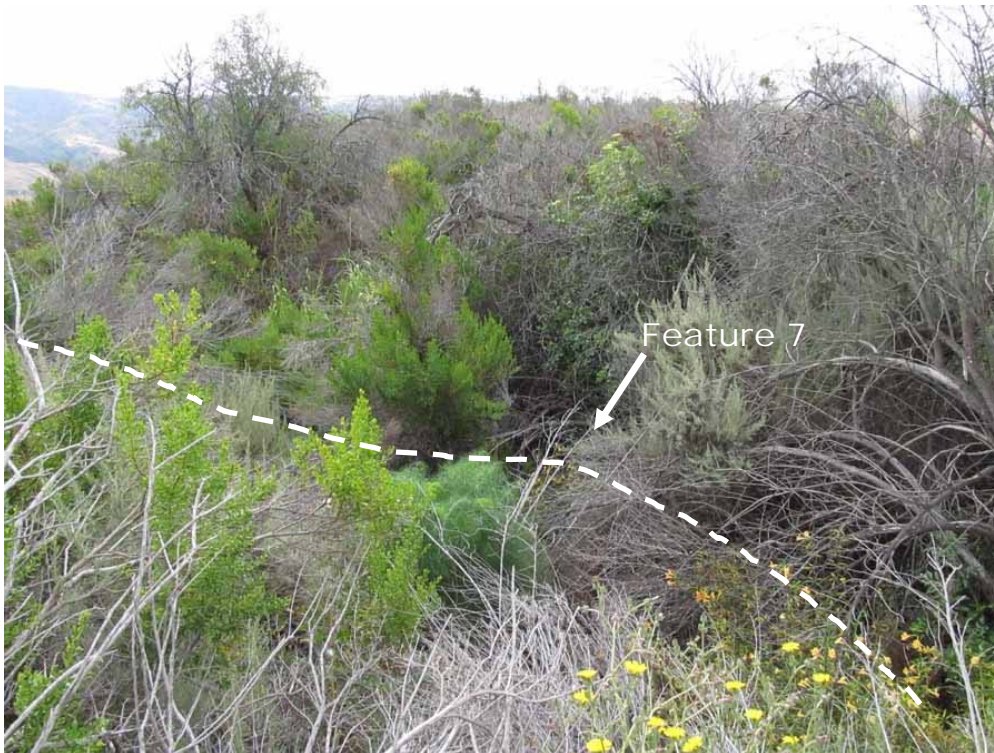
Photograph 9 (Northwest of Pole 18, Mapbook Page 6): Feature 4, Sample Point 9. View northwest.



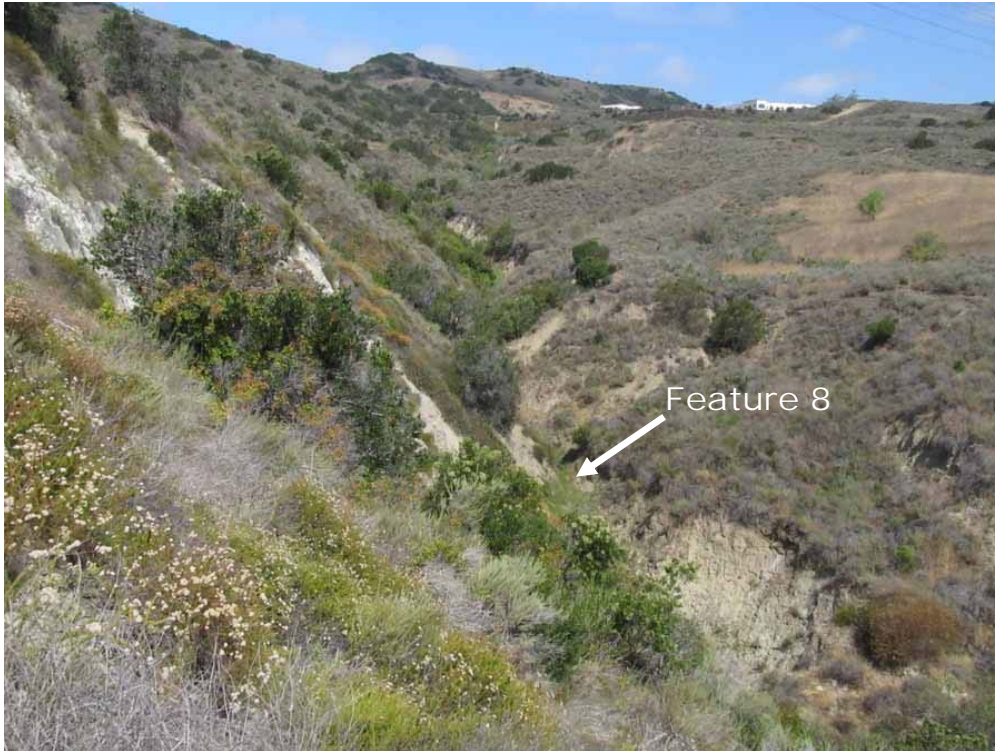
Photograph 10 (Between Poles 20 and 19, Mapbook Page 7): Feature 5, Sample Points 10 and 11. View east.



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



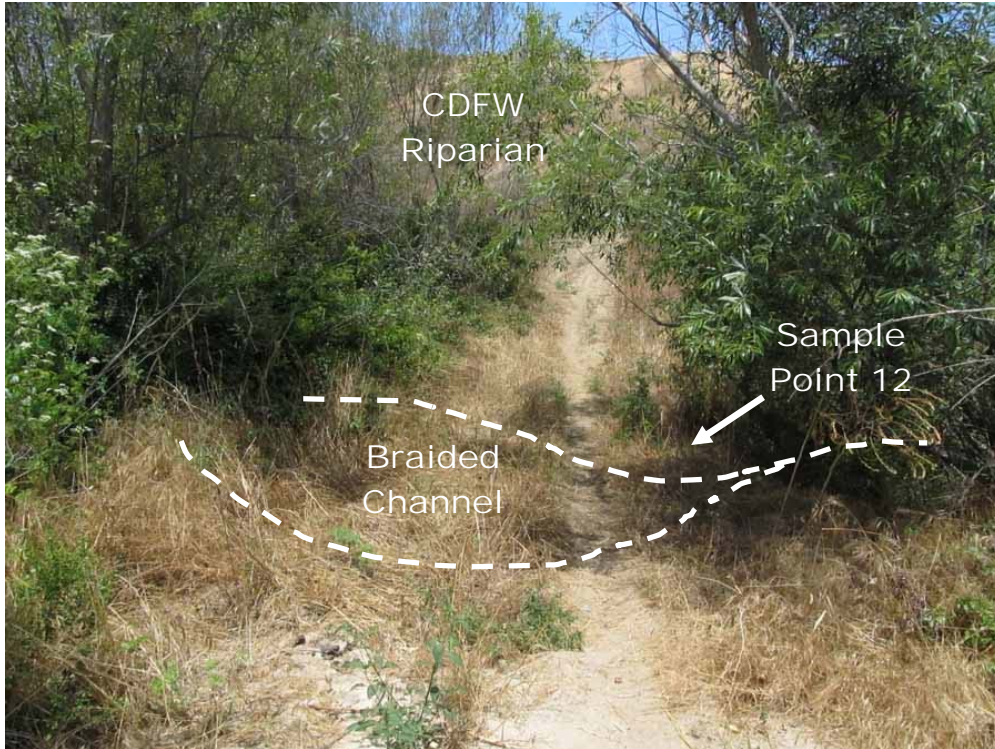
Photograph 12 (Between Poles 24 and 23, Mapbook Pages 9 and 10): Feature 7, ephemeral channel. View east.



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.



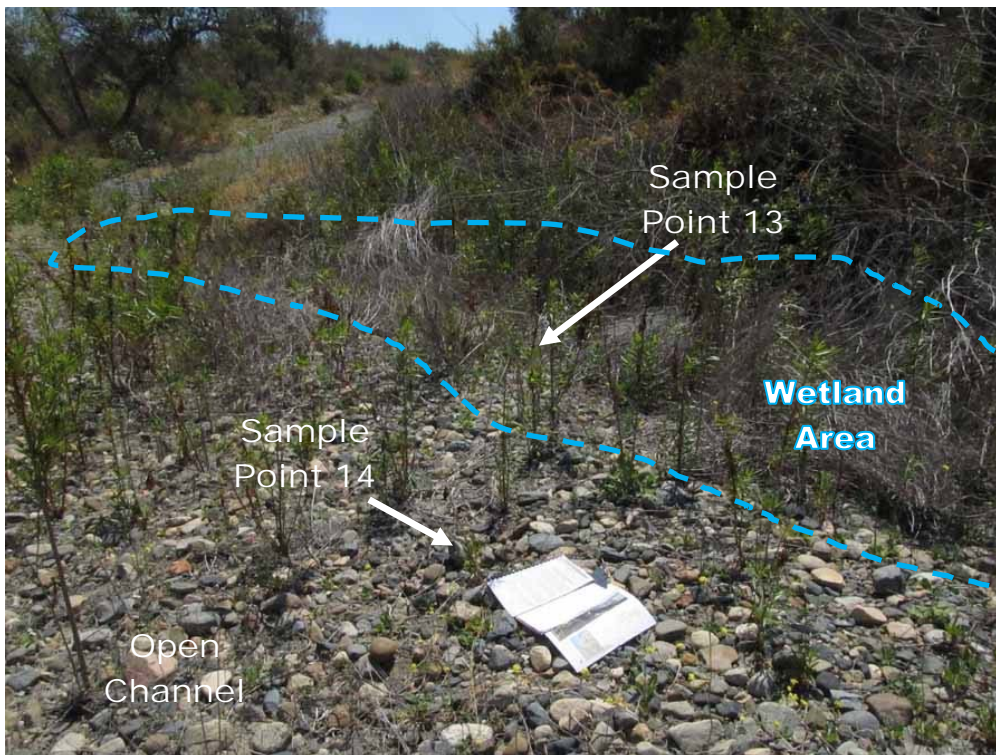
Photograph 17 (Between Poles 38 and 37, Mapbook Page 17): Feature 11, ephemeral channel. View north.



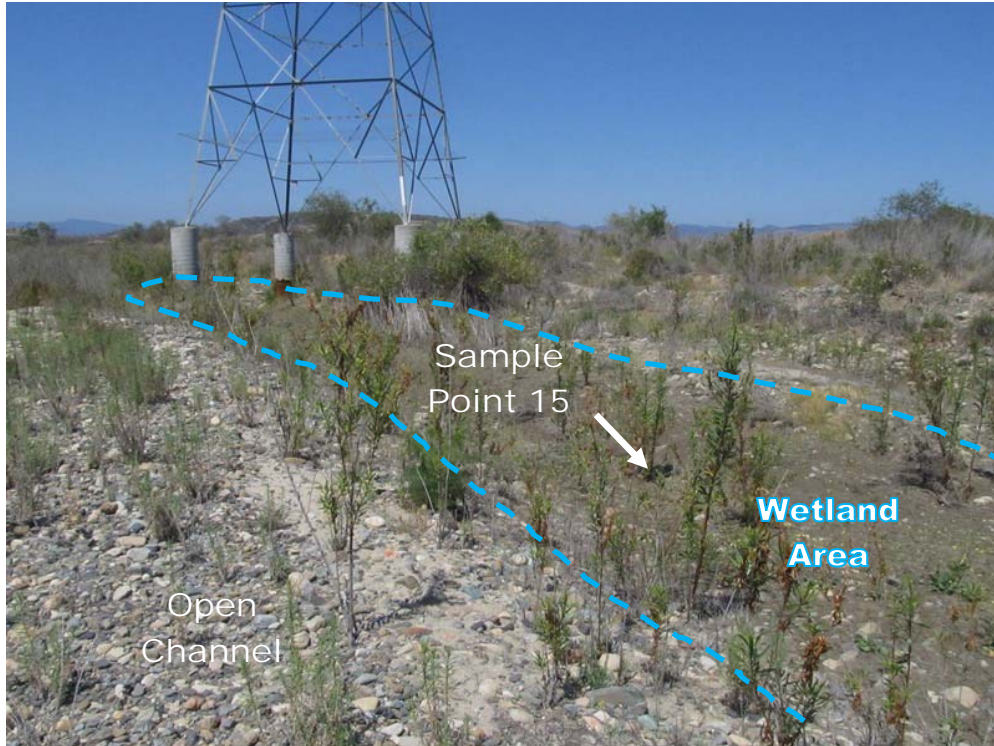
Photograph 18 (Between Stringing Site 8 and Pole 38, Mapbook Pages 17 and 18): Feature 12, ephemeral channel. View west.



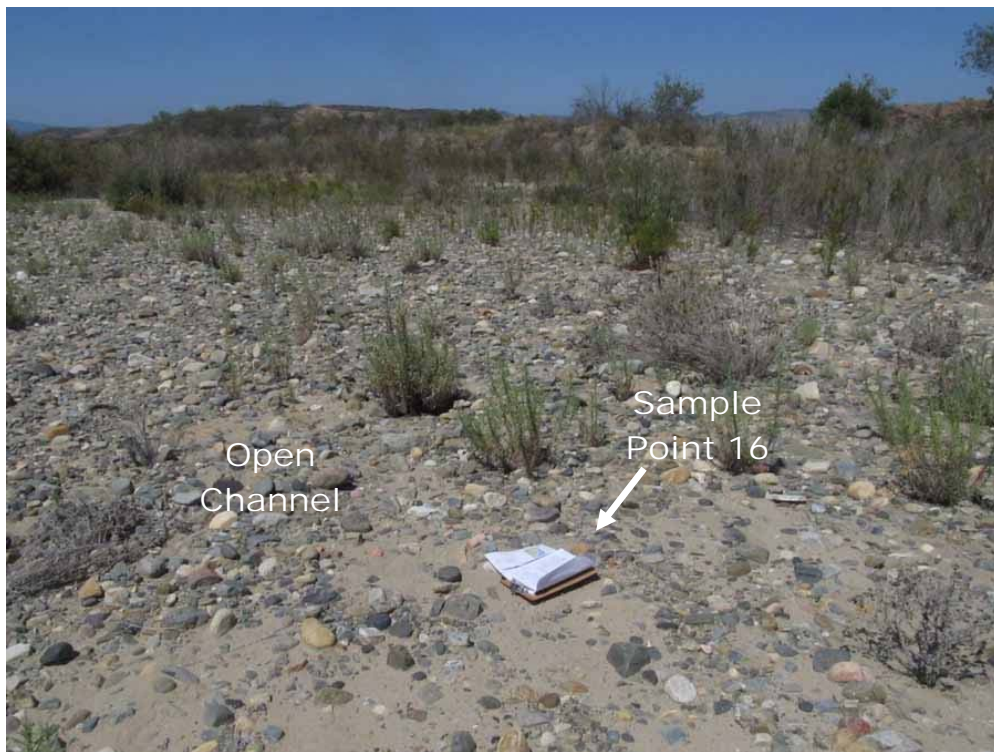
Photograph 19 (Between Poles 44 and 43, Mapbook Pages 19 and 20): Feature 13, San Mateo Creek, eastern portion. View southwest.



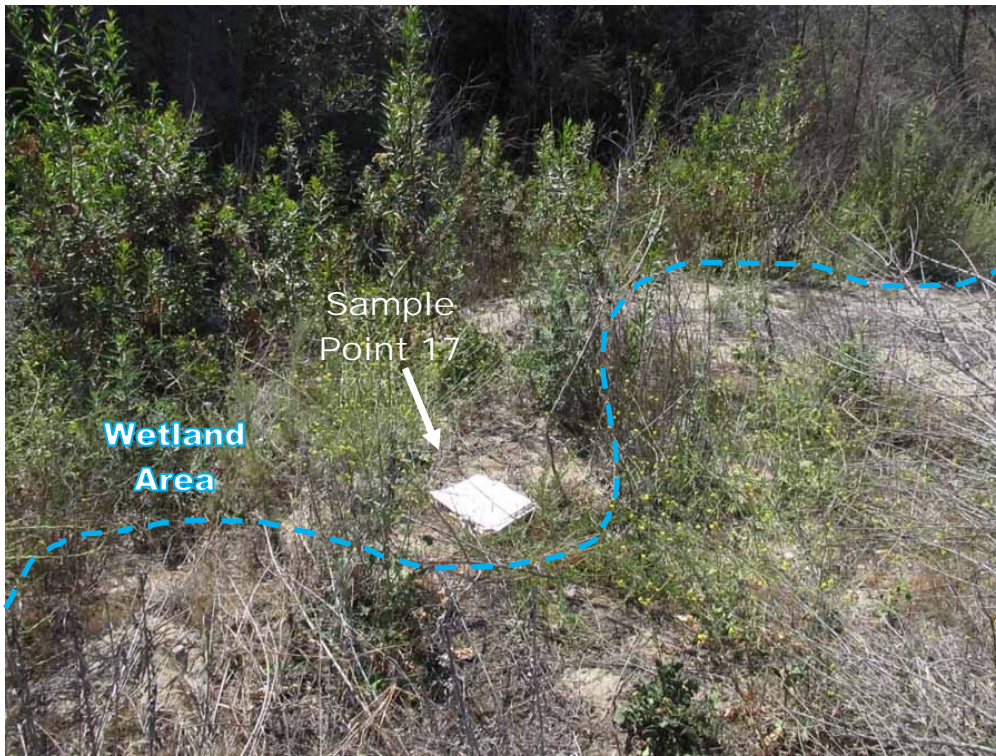
Photograph 20 (Between Poles 44 and 43, Mapbook Pages 19 and 20): San Mateo Creek, Sample Points 13 and 14. View northwest.



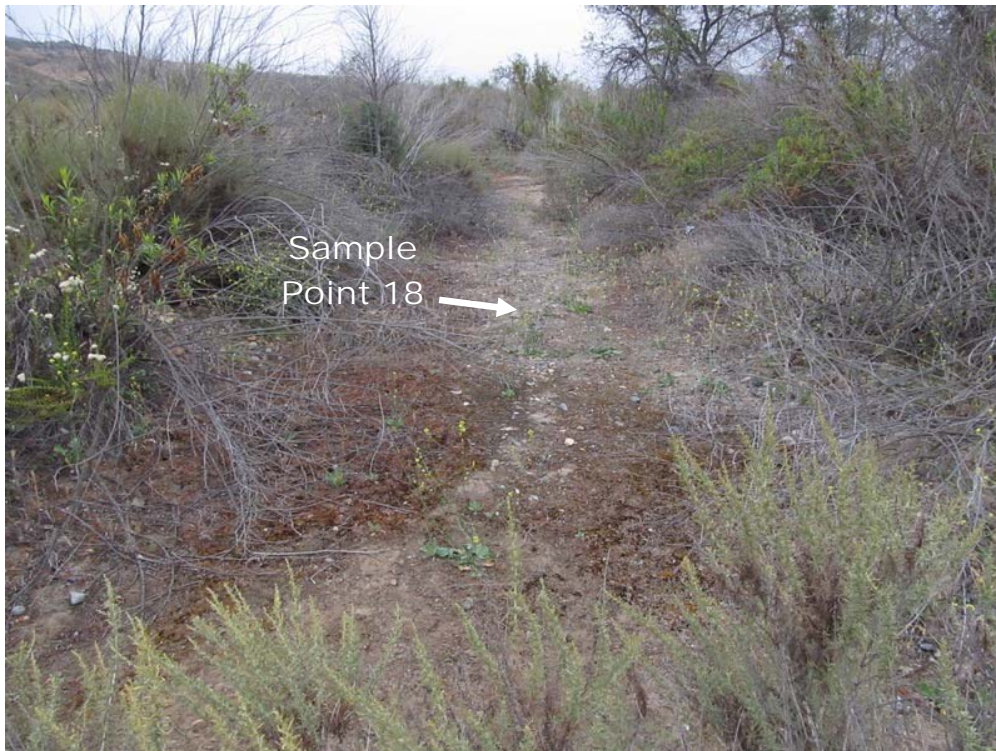
Photograph 21 (Between Poles 44 and 43, Mapbook Page 19): San Mateo Creek, Sample Point 15. View northeast.



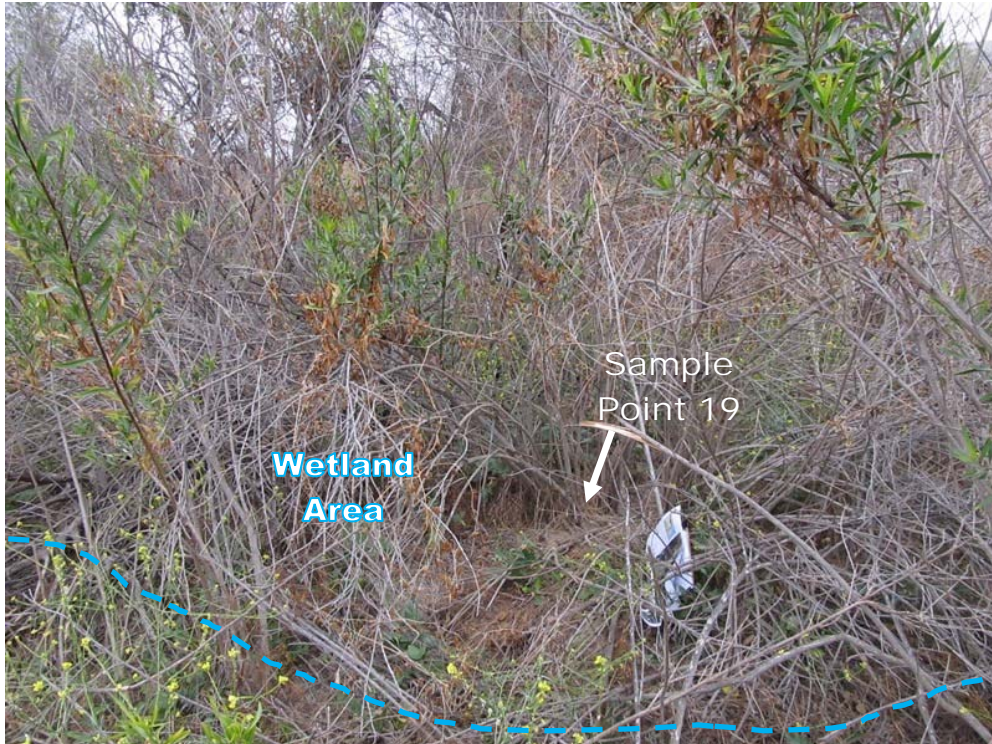
Photograph 22 (East of Pole 43, Mapbook Page 19): San Mateo Creek, Sample Point 16 in proposed stringing site. View north.



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



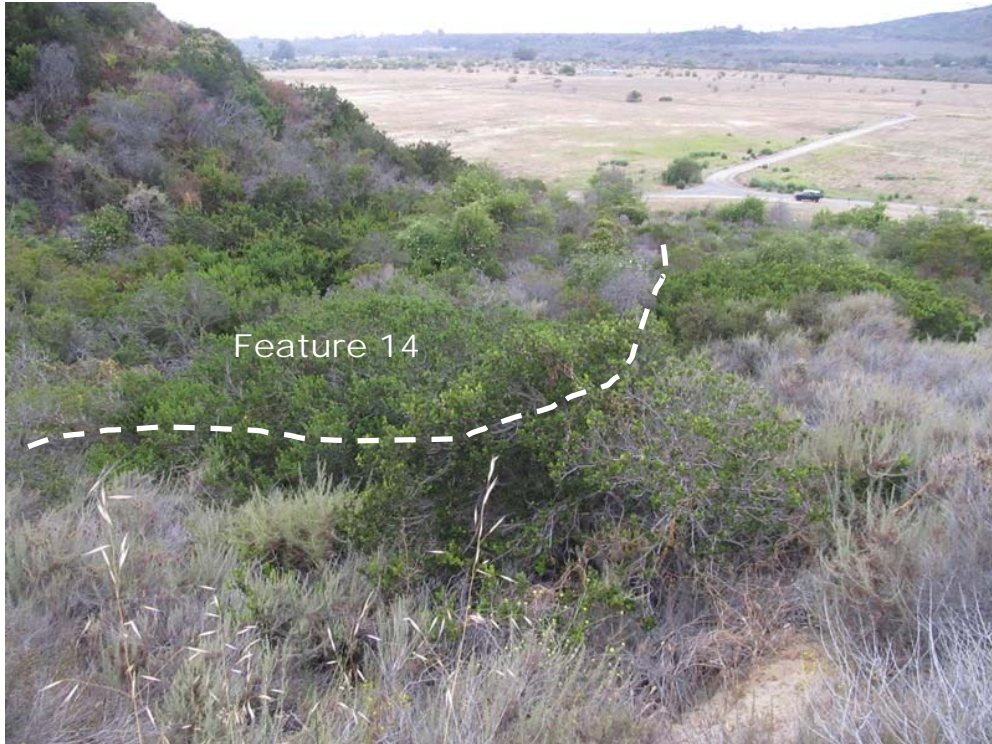
Photograph 24 (Between Poles 44 and 43, Mapbook Page 19): San Mateo Creek, Sample Point 18. View north.



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



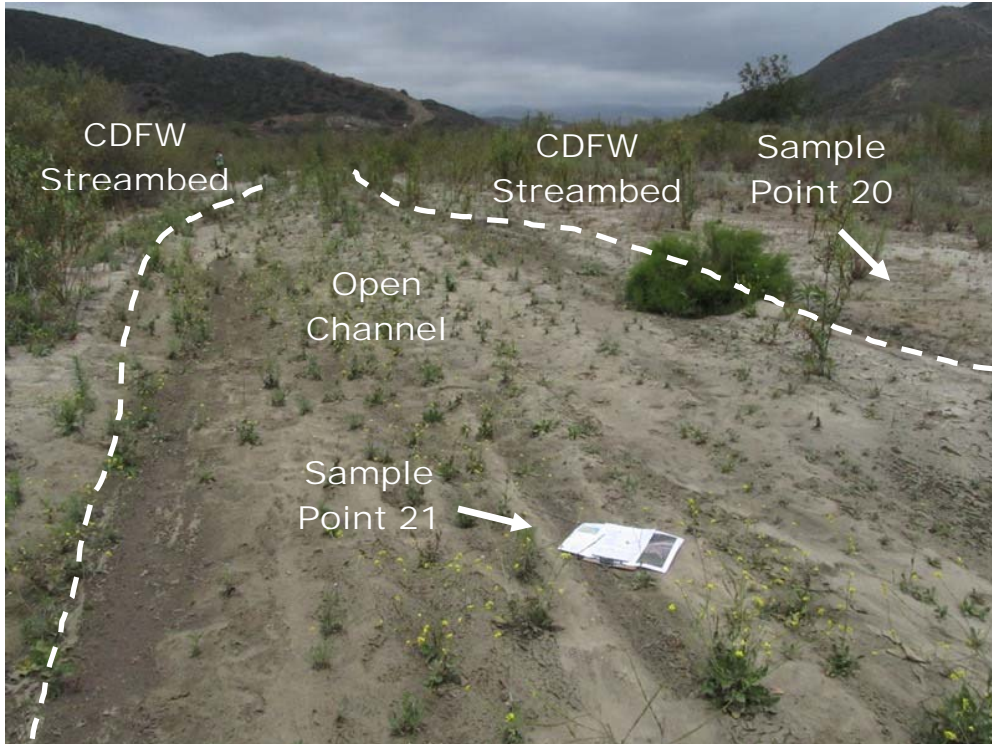
Photograph 26 (Between Poles 47 and 46, Mapbook Page 23): Non-jurisdictional erosional feature near Feature 14. View north.



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 portion. 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.



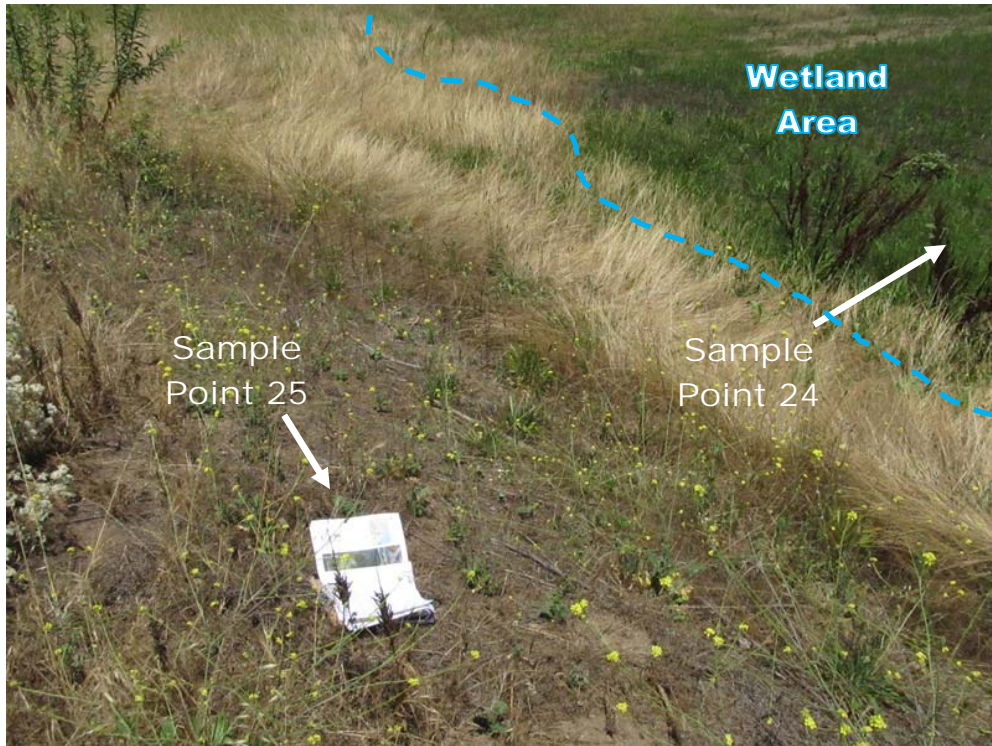
Photograph 34 (Between Poles 88 and 57, Mapbook Page 30): Feature 17, Sample Point 23. View northeast.



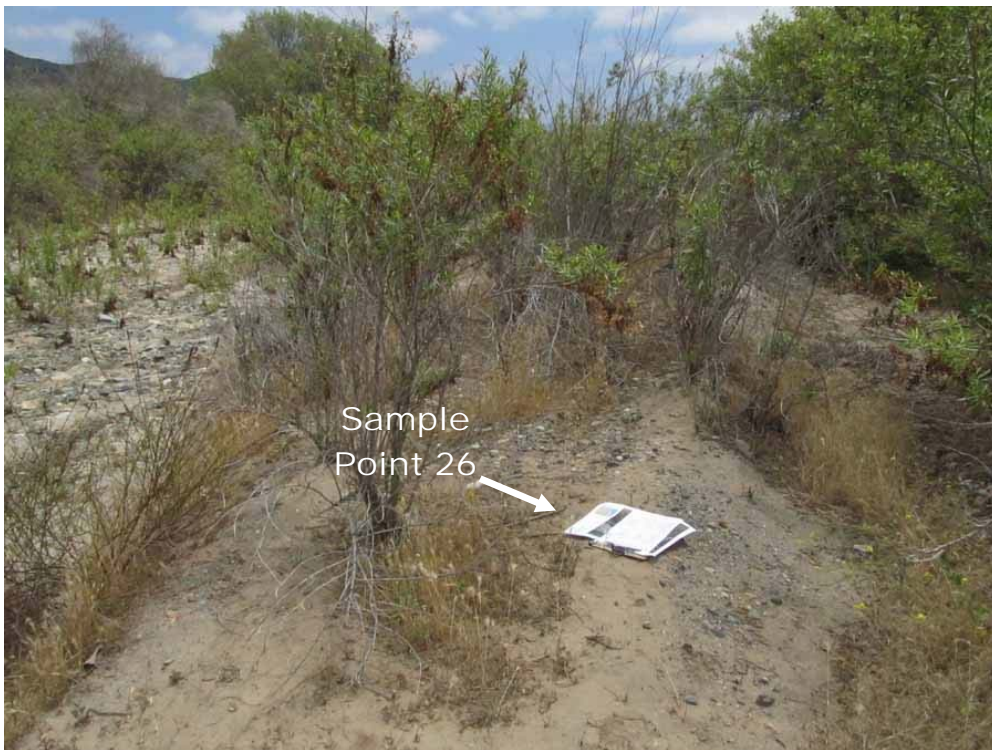
Photograph 35 (Southwest of SONGS Mesa Facility, Mapbook Pages 32 and 33): Non-jurisdictional concrete brow ditch south of the SONGS Mesa Facility. View west.



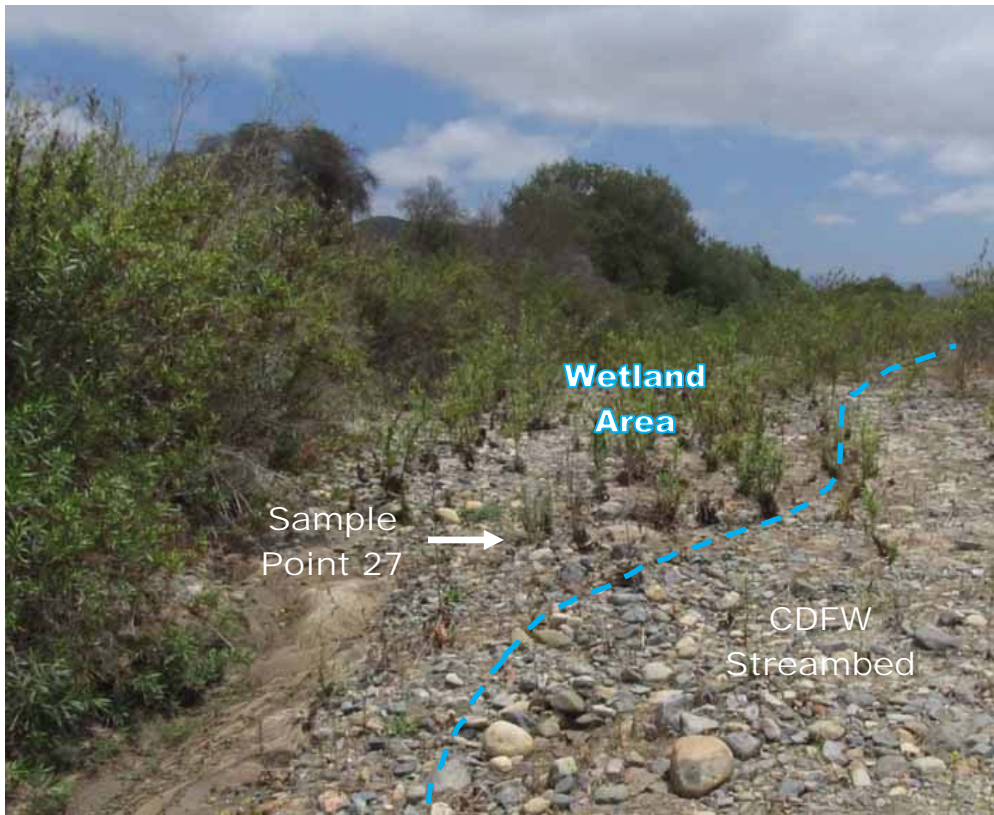
Photograph 36 (Between Poles 65 and 67, Mapbook Page 35): Feature 18, overflow basin. View east.



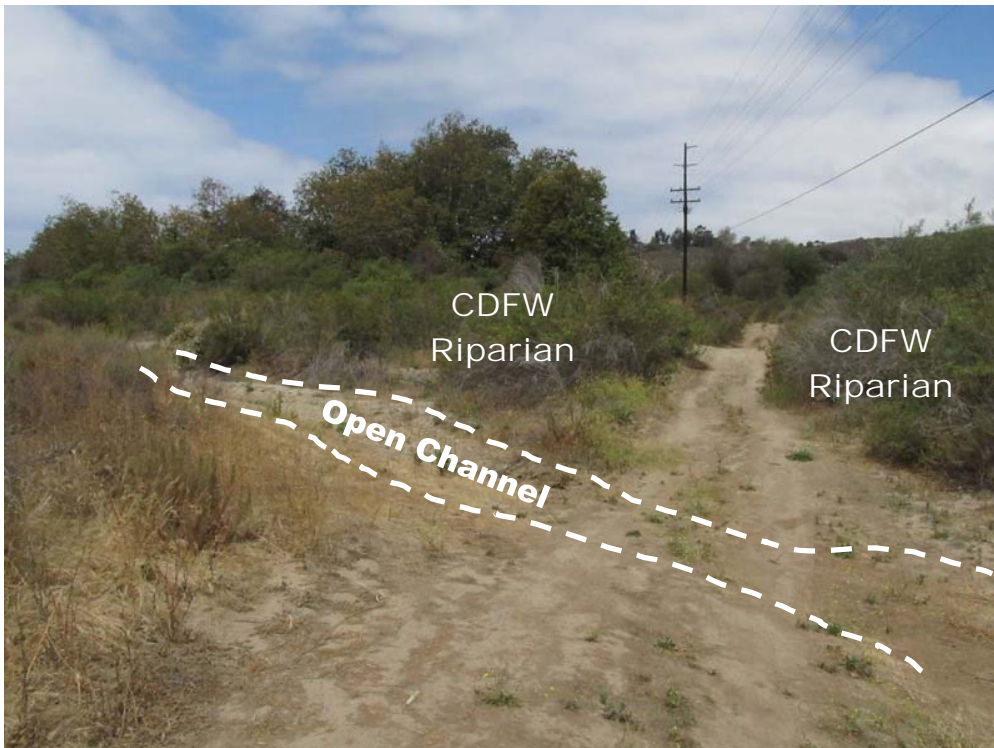
Photograph 37 (Between Poles 65 and 67, Mapbook Page 35): Feature 18, Sample Points 24 and 25. View southeast.



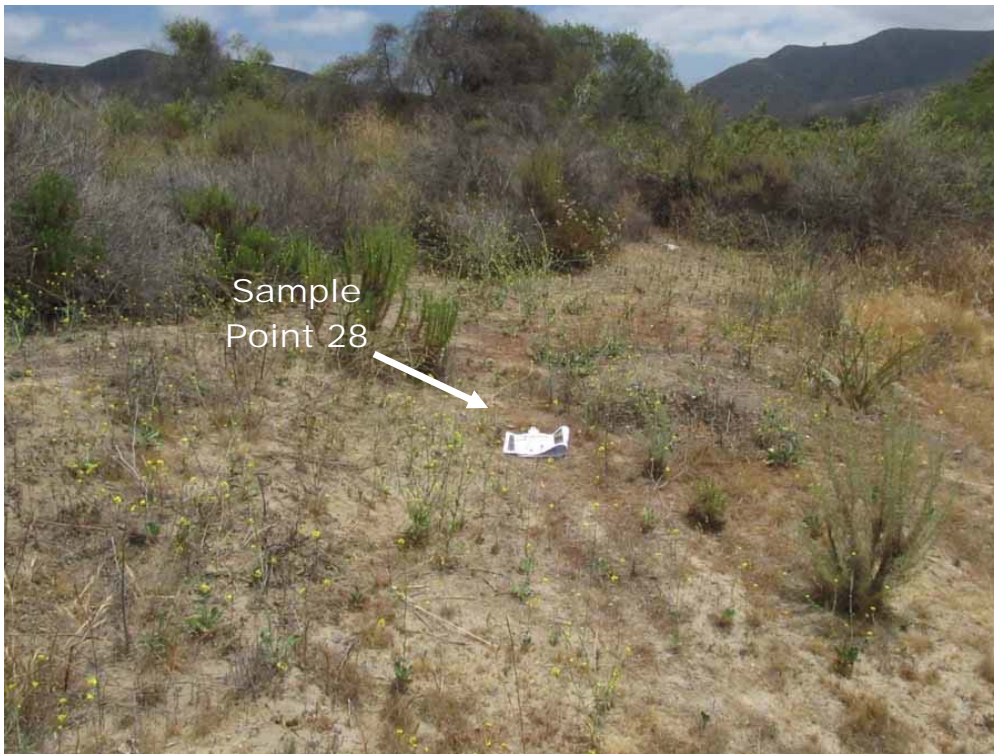
Photograph 38 (Between Poles 70 and 71, Mapbook Page 36): Feature 19, San Onofre Creek, western portion, Sample Point 26. View east.



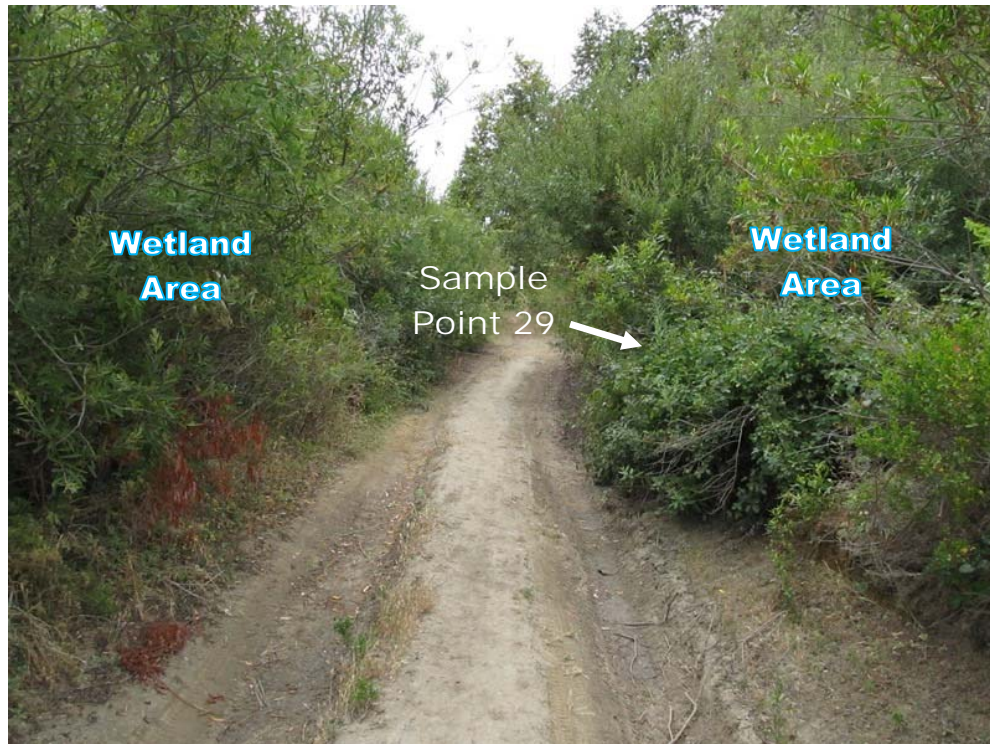
Photograph 39 (Between Poles 70 and 71, Mapbook Page 36): San Onofre Creek, Sample Point 27. View east.



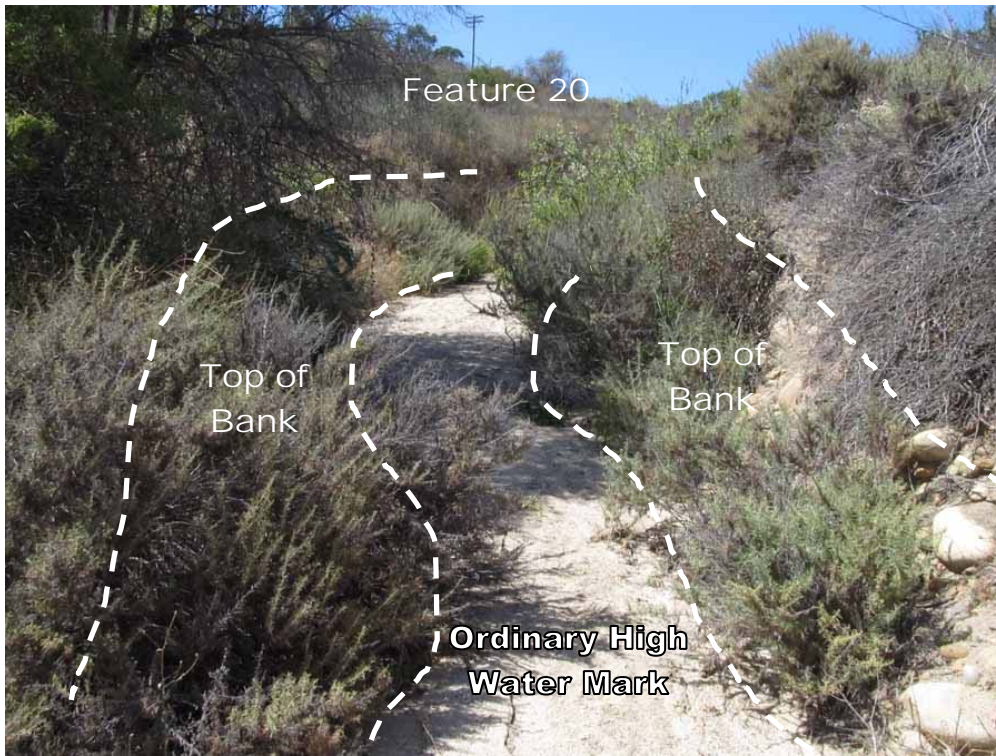
Photograph 40 (Between Poles 70 and 71, Mapbook Page 36): San Onofre Creek, access road crossing. View north.



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.



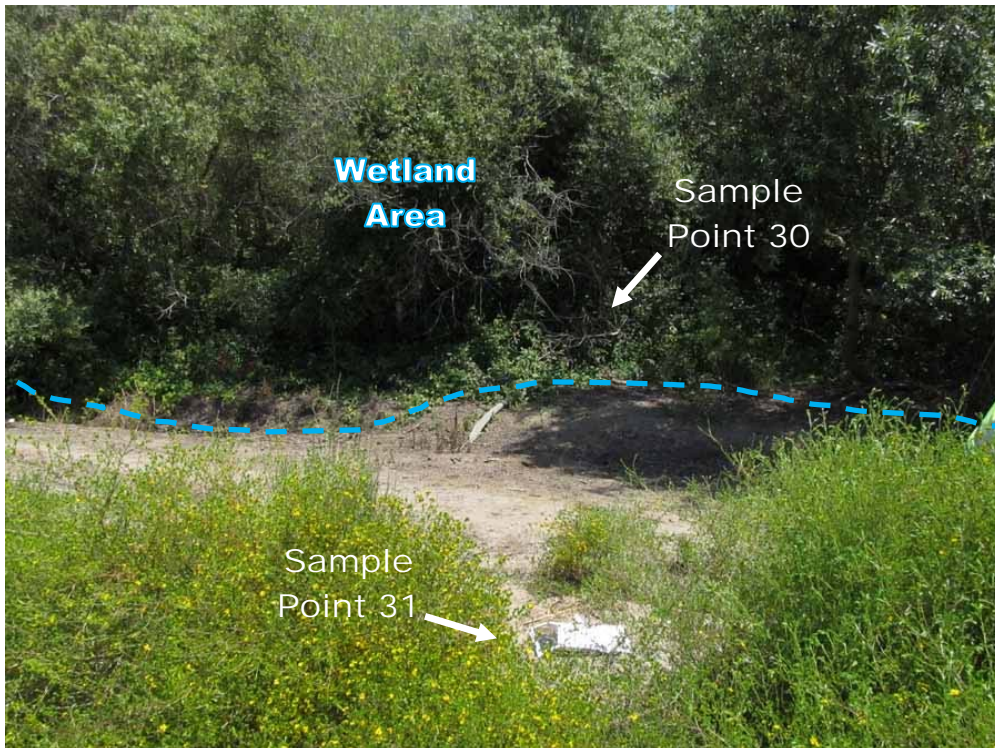
Photograph 43 (West of Pole 76, Mapbook Page 37): Feature 20, ephemeral channel. View north.



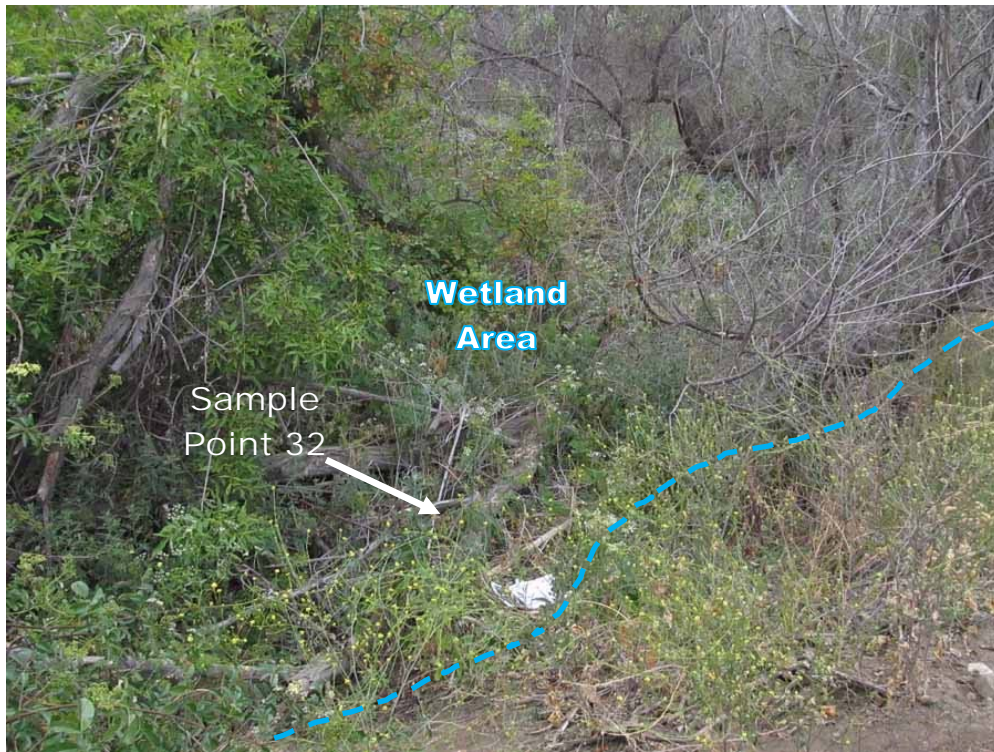
Photograph 44 (West of Pole 76, Mapbook Page 37): Feature 20 end, graded area between feature and culvert inlet. View west.



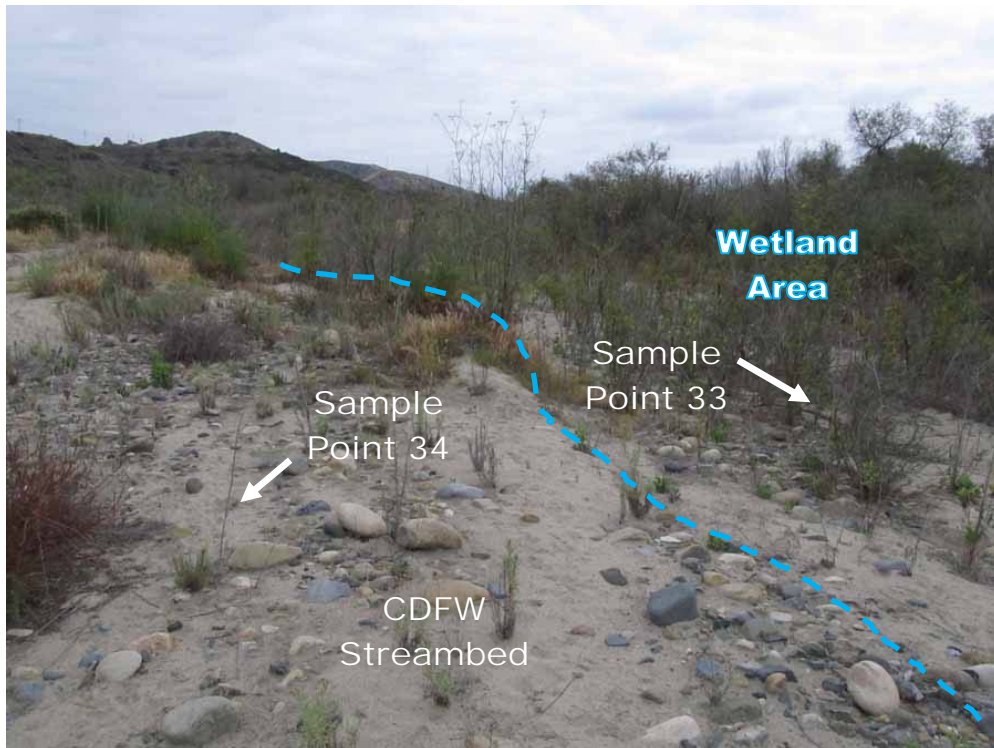
Photograph 45 (Between Poles 125 and 124, Mapbook Page 40): Feature 21 overview. View northwest.



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.



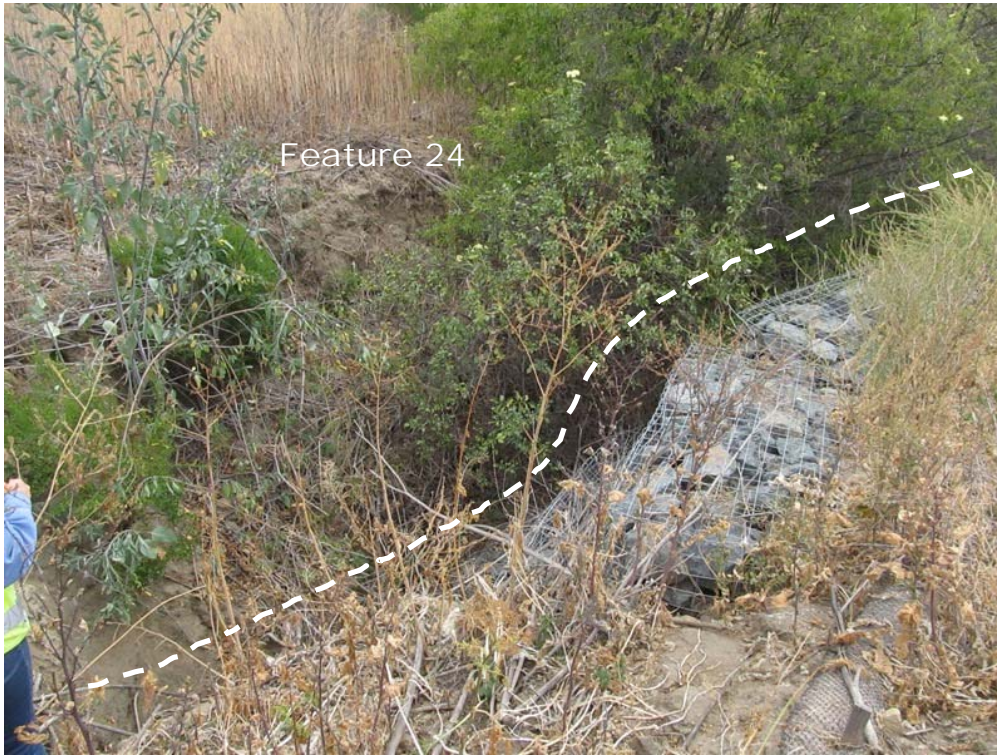
Photograph 48 (Between Poles 133 and 134, Mapbook Page 42): Feature 22, San Mateo Creek, Sample Points 33 and 34. View north.



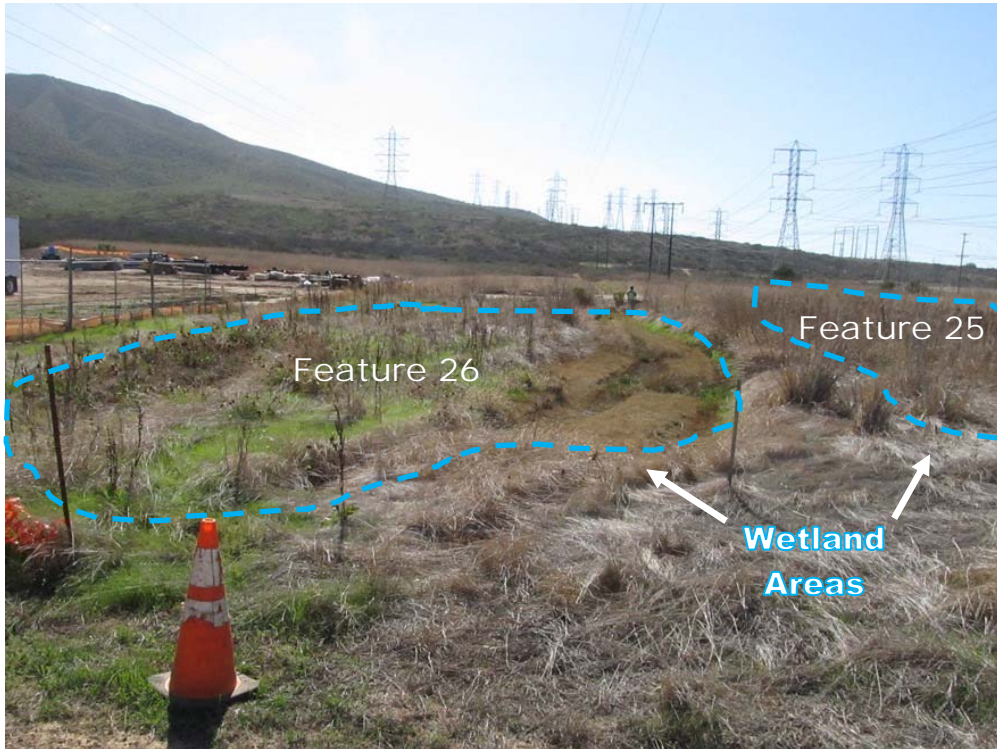
Photograph 49 (East of Stringing Site 11, Mapbook Page 48): Feature 23, intermittent channel. View west.



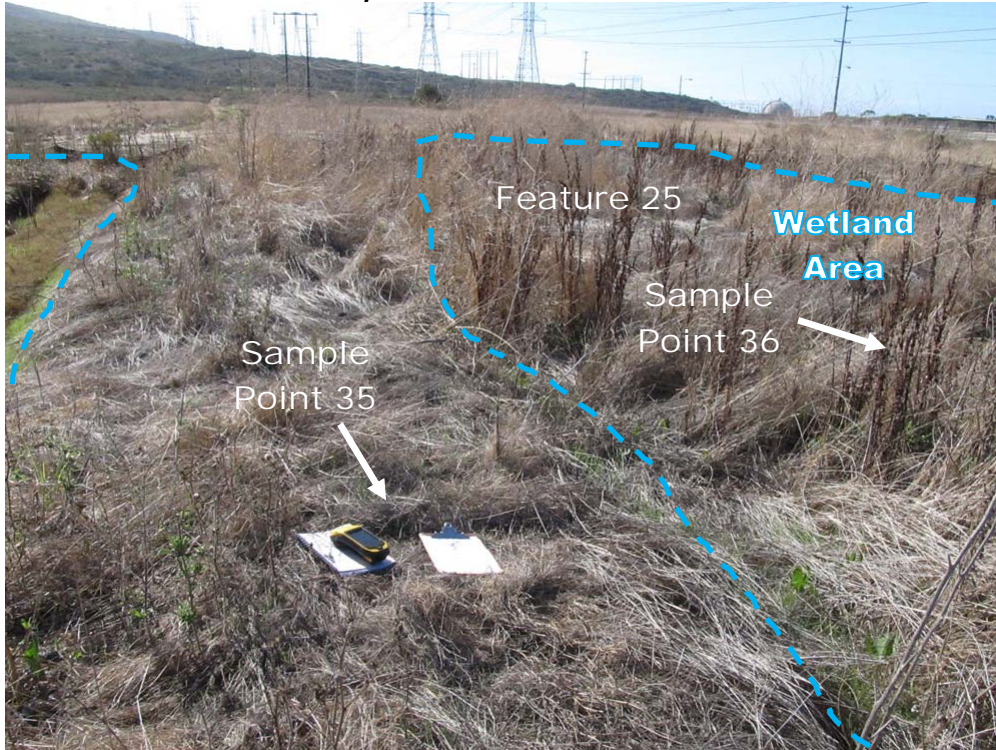
Photograph 50 (East of Stringing Site 11, Mapbook Page 48): Feature 23, adjacent riparian. View south.



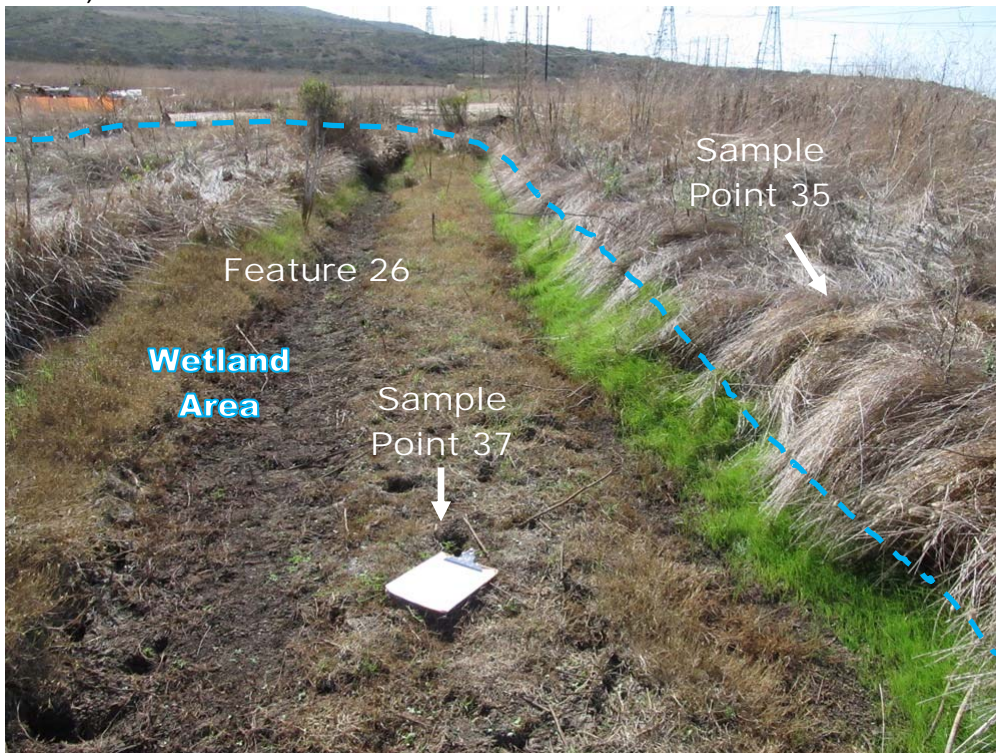
Photograph 51 (Southeast of Pole 172, Mapbook Page 49): Feature 24, ephemeral channel. View south.



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: SOBE State: CA Sampling Point: SP-1
 Investigator(s): A. BOLLIGER, O. 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: -117.572342 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 (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: _____)				
1. <u>Lolium perenne</u>	<u>80</u>	<u>Y</u>	<u>FAC</u>	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 = _____
2. <u>Avena fatua</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Picris esculenta</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
4. <u>Sonchus asper</u>	<u>1</u>	<u>N</u>	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>126</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____	_____	_____	_____	
<u>126</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks:				

SOIL

Sampling Point: _____

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

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: 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 Soils³:

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

³Indicators 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:

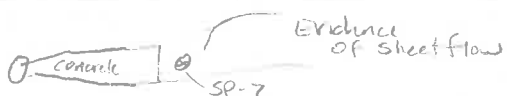
WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 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.): Sheetflow area Local relief (concave, convex, none): Depression Slope (%): 5
 Subregion (LRR): LRR C Lat: 33.4695390311 Long: -117.57228975 Datum: NAD 83
 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 (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

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. <u>Baccharis pilularis</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Baccharis californica</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Sambucus mexicana</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
				<u>80</u> = Total Cover
Herb Stratum (Plot size: _____)				
1. <u>Bromus diandrus</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Anagallis arvensis</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	
3. <u>Pteris esculentus</u>	<u>1</u>	<u>N</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
				<u>23</u> = Total Cover
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
				<u>103</u> = Total Cover
% Bare Ground in Herb Stratum <u>30</u>	% Cover of Biotic Crust <input checked="" type="checkbox"/>			

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 ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

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

Hydrophytic Vegetation Present? Yes No

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		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

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

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

<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Vernal Pools (F9)	

Indicators for Problematic Hydric Soils³:

³Indicators 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 hydric

HYDROLOGY

Wetland Hydrology Indicators:

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

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____
 Water Table Present? Yes _____ No _____ Depth (inches): _____
 Saturation Present? (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:
 / stream flow no Red + Bank

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15
 Applicant/Owner: SDBE State: CA Sampling Point: SP-3
 Investigator(s): A. BORCHERT, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): B
 Subregion (LRR): LRR C Lat: 33.45351846 Long: -117.57703156 Datum: WGS 84
 Soil Map Unit Name: Crencha Sandy loam NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> OHWM 2 00FW 4 </div> <div> SP-3 small canyon channel </div> </div>	

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. <u>Sambucus mexicana</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
2. <u>Baccharis pilularis</u>	<u>60</u>	<u>Y</u>	<u>VPL</u>	
3. _____				
4. _____				
5. _____				
				<u>65</u> = Total Cover
Herb Stratum (Plot size: _____)				
1. <u>Hieracifolia incana</u>	<u>35</u>	<u>Y</u>	<u>VPL</u>	
2. <u>Cirsium occidentale</u>	<u>30</u>	<u>Y</u>	<u>VPL</u>	
3. <u>Bromus diandrus</u>	<u>10</u>	<u>N</u>	<u>VPL</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
				<u>75</u> = Total Cover
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
				<u>140</u> = Total Cover
% Bare Ground in Herb Stratum <u>20</u>	% 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:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

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

Hydrophytic Vegetation Present? Yes No


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. BORCHERT, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): BASIN Local relief (concave, convex, none): CONCAVE Slope (%): 5
 Subregion (LRR): LRR-C Lat: 33.45257913 Long: -117.57764766 Datum: NAD 83
 Soil Map Unit Name: BOSANKO 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: 	

VEGETATION – Use scientific names of plants.


Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis pilularis</u>	<u>25</u>	<u>Y</u>	<u>UPL</u>	Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>25</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Hirschfeldia incana</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	___ Dominance Test is >50%
2. <u>Dubautia spicata</u>	<u>90</u>	<u>Y</u>	<u>FACW</u>	___ Prevalence Index is ≤3.0 ¹
3. _____				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>92</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
<u>117</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
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. BOREHAR, 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: NAD 83
 Soil Map Unit Name: Calleguas clay loam NWI classification: RIVERLINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: 	

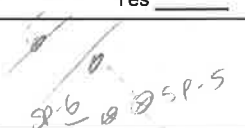
VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>6</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. <u>Isocarpha menziesii</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Onopordium sp.</u>	<u>16</u>	<u>Y</u>	<u>NI(UNK)</u>	OBL species _____ x 1 = _____
3. <u>Baccharis californica</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	FACW species _____ x 2 = _____
4. <u>Tamarix ramosissima</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	FAC species _____ x 3 = _____
5. <u>Rhus ovata</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	FACU species _____ x 4 = _____
<u>70</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>Polypogon monspeliensis</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Sonchus asper</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Ambrosia psilostachya</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Panicum oscioides</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>60</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>130</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
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-6
 Investigator(s): A. BORCHERT, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): SLOPE Local relief (concave, convex, none): SLOPE Slope (%): 15
 Subregion (LRR): LRR C Lat: 33.460817 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 (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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. <u>Harzardia squarrosa</u>	<u>10</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Graptolium sp.</u>	<u>25</u>	<u>Y</u>	<u>NT (unk)</u>	
3. _____				
4. _____				
5. _____				
				<u>35</u> = Total Cover
Herb Stratum (Plot size: _____)				
1. <u>Hirschfeldia incana</u>	<u>50</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Pennis setacea</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Ambrosia psilostachys</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
4. <u>Bromus diandrus</u>	<u>20</u>	<u>N</u>	<u>UPL</u>	
5. _____				
6. _____				
7. _____				
8. _____				
				<u>110</u> = Total Cover
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
				<u>145</u> = 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 ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

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

Hydrophytic Vegetation Present? Yes No

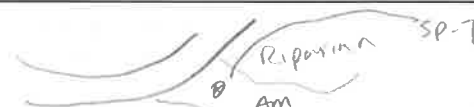
Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15
 Applicant/Owner: SDBE State: CA Sampling Point: SP-7
 Investigator(s): A. BORCHERT, 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: -117.57864710 Datum: NAD 83
 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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Atropis semibaccata</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
<u>40</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Sparganium angustifolium</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	<u>X</u> Dominance Test is >50%
2. <u>Colum perenne</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	_____ Prevalence Index is ≤3.0 ¹
3. <u>Distichlis spicata</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	_____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	_____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>100</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
<u>140</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <u>X</u> 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		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

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

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5) (LRR C)</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR D)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Vernal Pools (F9)</p>	<p><input type="checkbox"/> 1 cm Muck (A9) (LRR C)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR B)</p> <p><input type="checkbox"/> Reduced Vertic (F18)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____</p>
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Remarks:
- no pits, assumed present

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1) (Nonriverine)</p> <p><input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine)</p> <p><input type="checkbox"/> Drift Deposits (B3) (Nonriverine)</p> <p><input checked="" type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Biotic Crust (B12)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Thin Muck Surface (C7)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water Marks (B1) (Riverine)</p> <p><input type="checkbox"/> Sediment Deposits (B2) (Riverine)</p> <p><input type="checkbox"/> Drift Deposits (B3) (Riverine)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Crayfish Burrows (C8)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u> </u></p> <p>Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u> </u></p> <p>Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u> </u> <small>(includes capillary fringe)</small></p>	<p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____</p>
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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: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-8
 Investigator(s): A. BORCHERT, D. NUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): SLOPE Local relief (concave, convex, none): SLOPE Slope (%): 10
 Subregion (LRR): LRR Lat: 33.45127990 Long: -117.57865183 Datum: NAD83
 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: <div style="text-align: center; margin-top: 10px;"> <p style="font-size: small;">g.b. - 10 RIPARIAN</p> </div>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25</u> (A/B)
4. _____	_____	_____	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Atropis semibaccata</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Sarcocolla menziesii</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
<u>20</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Bombus diandrus</u>	<u>45</u>	<u>Y</u>	<u>UPL</u>	<u>X</u> Dominance Test is >50%
2. <u>Avena fatua</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	_____ Prevalence Index is ≤3.0 ¹
3. <u>Hirschfeldia incana</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	_____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	_____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>70</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes _____ No <u>X</u>
2. _____	_____	_____	_____	
<u>90</u> = Total Cover				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators 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 _____
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Remarks: *- No soil pits, assumed*

HYDROLOGY

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-9
 Investigator(s): A. BORRHER, D. HISS 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: NAD 83
 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: <u>OSP-9</u> <u>2/6</u>	

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: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Panicum pilularis</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Cortaderia setacea</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
= Total Cover				
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>PICRIS ESCOLES</u>	<u>11</u>	<u>N</u>	<u>FAC</u>	
2. <u>Bromus diandrus</u>	<u>12</u>	<u>N</u>	<u>UPL</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
= Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
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: 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:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹		

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

Remarks:
 -no soil pits, assumed

HYDROLOGY

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

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>2 inches</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-10
 Investigator(s): A. BORETHER, 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: 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 (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: <div style="text-align: center; font-size: 1.2em;">SP-10 - 0 - Chan</div>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix lasiolepis</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)
4. _____	_____	_____	_____	
<u>10</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis salicifolia</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Cortaderia seloana</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
<u>20</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Ambrosia ps. t. stachys</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Lolium perenne</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	_____ Prevalence Index is ≤3.0 ¹
3. <u>Picris eschscholii</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	_____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Medicago polymorpha</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	_____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Mulibotus indica</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	
<u>58</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
<u>00</u> = Total Cover				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> 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		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9) <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: *- no soil pits, assumed present*

HYDROLOGY

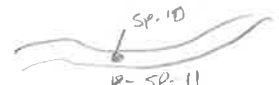
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input checked="" type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	Secondary Indicators (2 or more required) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/1/15
 Applicant/Owner: SOBE State: CA Sampling Point: SP-11
 Investigator(s): A. BOULTER, D. HUSS 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: -117.57881767 Datum: NAD 83
 Soil Map Unit Name: A TERRACE ESCARPMENTS NWI classification: RIVERLINES

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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis pilularis</u>	<u>10</u>	<u>Y</u>	<u>UPL</u>	Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>10</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Lolium perenne</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	<u>X</u> Dominance Test is >50%
2. <u>Bromis diandrus</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	____ Prevalence Index is ≤3.0 ¹
3. <u>Distichlis spicata</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Melilotus indica</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>47</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
<u>57</u> = Total Cover				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

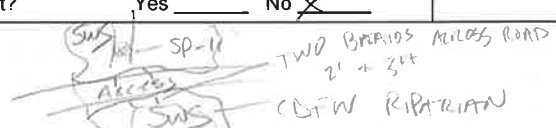
Remarks:

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. BORCHERT, 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: -117.58186391 Datum: NAD 83
 Soil Map Unit Name: ALO CLAY NWI classification: FRESH 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Salix lasiolepis</u>	<u>60</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Toxicodendron diversifolium</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>100</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Bromus diandrus</u>	<u>25</u>	<u>Y</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Cyperus maculatum</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Avena fatua</u>	<u>3</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>39</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes _____ No <u>X</u>
2. _____				
<u>133</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

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

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

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5) (LRR C)</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR D)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p>	<p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Vernal Pools (F9)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR C)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR B)</p> <p><input type="checkbox"/> Reduced Vertic (F18)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³Indicators 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)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

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

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

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

Wetland Hydrology Present? Yes No

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

Remarks:

Weak indicator

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO Sampling Date: 6/2/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-13
 Investigator(s): A. BOBENTER, D. HUSE Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): Concave Slope (%): 2
 Subregion (LRR): LRR C Lat: 33.41155352 Long: -117.5952042 Datum: WGS84
 Soil Map Unit Name: Riverwash NWI classification: RIVERLINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <div style="text-align: center; font-size: 1.2em;"> Low Slope SP-13 (SAN MATEO) </div>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix lasiolepis</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____				
<u>15</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis californica</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>20</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Xanthoxylum struthium</u>	<u>25</u>	<u>Y</u>	<u>FAC+</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Conium maculatum</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Cyperus esculentus</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>40</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
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. BORREITER, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): CHANNEL BENCH Local relief (concave, convex, none): CONCAVE Slope (%): 3
 Subregion (LRR): LRR C Lat: 33.41159918 Long: -117.57944389 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: <div style="text-align: center;"> </div>	

VEGETATION – Use scientific names of plants.

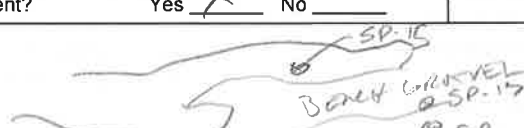
Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis salicifolia</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Lotus scoparius</u>	<u>7</u>	<u>N</u>	<u>UPL</u>	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Gnaphalium californicum</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Hirschfeldia incana</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Heterotheca grandiflora</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Gnaphalium bicolor</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
Remarks:				

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/2/15
 Applicant/Owner: SOBE State: CA Sampling Point: SP-15
 Investigator(s): A. BORCHERT D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): Concave Slope (%): 1
 Subregion (LRR): LARC Lat: 33.4172195 Long: -117.579227 Datum: NAD 83
 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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks: 	

VEGETATION – Use scientific names of plants.

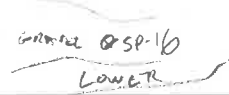
Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Raccharis salicifolia</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Rumex salicifolius</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
<u>55</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Hydrocotyle incana</u>	<u>21</u>	<u>NA</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. _____	_____	_____	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <u>X</u> No _____
2. _____	_____	_____	_____	
<u>5</u> = Total Cover				
% Bare Ground in Herb Stratum <u>50</u> % Cover of Biotic Crust _____				
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. BORCHERT, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): channel Local relief (concave, convex, none): _____ Slope (%): 2
 Subregion (LRR): LRR C Lat: 33.41262719 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: <div style="text-align: center; margin-top: 10px;">  <p style="font-size: small;">channel @ SP-16 LOWER</p> </div>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Scaevola bicolor</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>15</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. _____				<u>X</u> Dominance Test is >50%
2. _____				___ Prevalence Index is ≤3.0 ¹
3. _____				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>15</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>75</u> % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO CNTY Sampling Date: 6/2/15
 Applicant/Owner: SDBE State: CA Sampling Point: SP-17
 Investigator(s): A. BORCHERT, 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: -117.57954790 Datum: NAD83
 Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input type="checkbox"/>
Remarks: <div style="text-align: center; font-size: 1.2em;"> @ SP-17 @ CR 16 SANITATED </div>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
4. _____	_____	_____	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. <u>Eriogonum fasciculatum</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Artemisia californica</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	OBL species _____ x 1 = _____
3. <u>Baccharis salicifolia</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	FACW species _____ x 2 = _____
4. <u>Lotus scoparius</u>	<u>3</u>	<u>N</u>	<u>UPL</u>	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
= Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>Hirschfeldia incana</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Ambrosia philocephala</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Artemisia douglasiana</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>95</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____	_____	_____	_____	
<u>95</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6-7-15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-18
 Investigator(s): A. BORCHERT, D. HESS 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: -117.57382137 Datum: NBS 84
 Soil Map Unit Name: RIVERWASH NWI classification: FRESH WATER 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: <div style="text-align: center; font-size: 1.2em; font-family: cursive;"> SATURATED BENCH @ MGS SP-18 </div>	

VEGETATION – Use scientific names of plants.


Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis salicifolia</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Artemisia californica</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>55</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Bromus madroterensis</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Hirschfeldia incana</u>	<u>42</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>7</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes _____ No <u>X</u>
2. _____				
<u>62</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
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-19
 Investigator(s): A. BORRITER, D. HESS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): DEPRESSION IN BENCH Local relief (concave, convex, none): CONCAVE Slope (%): _____
 Subregion (LRR): LRR C Lat: 33.41127205 Long: -117.57871468 Datum: WGS84
 Soil Map Unit Name: RIVERWASH NWI classification: FRESH WITH FOREST

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix laevigata</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
4. _____				
	<u>30</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis salicifolia</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2. <u>Opuntia littoralis</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
3. _____				
4. _____				
5. _____				
	<u>45</u>	= Total Cover		
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Hirschfeldia incana</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
	<u>30</u>	= Total Cover		
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes <input checked="" type="checkbox"/> No _____
2. _____				
	<u>105</u>	= Total Cover		
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

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

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

³Indicators 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)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Water Marks (B1) (Riverine)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> Sediment Deposits (B2) (Riverine)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Drift Deposits (B3) (Riverine)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> FAC-Neutral Test (D5)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

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

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

Saturation Present? (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 CNTY Sampling Date: 6/4/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-20
 Investigator(s): A. BORCHERT, 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: -117.55825269 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 (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>SAN ONOFRE</u> 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis salicifolia</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>15</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Gnaphalium bicolor</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Bromus madroterensis</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Erodium cicutarium</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Filago galica</u>	<u>4</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Melilotus alba</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
6. <u>Bromus diandrus</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
7. _____				
8. _____				
<u>38</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____				
<u>63</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

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

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

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

³Indicators 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)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input checked="" type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

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

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

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

Wetland Hydrology Present? Yes No

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


Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SANDIEGO COUNTY Sampling Date: 6/4/15
 Applicant/Owner: SOBE State: CA Sampling Point: SP-21
 Investigator(s): A. BURKERT, D. HISS 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: <u>SAN ONOFRE</u> 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. <u>Baccharis salicifolia</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Ambrosia psilostachya</u>	<u>21</u>	<u>N</u>	<u>FACW</u>	OBL species _____ x 1 = _____
3. <u>Foeniculum vulgare</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
<u>0</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
Herb Stratum (Plot size: _____)				Prevalence Index = B/A = _____
1. <u>Theropodium incana</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Gnaphalium bicolor</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	
3. <u>Melilotus alba</u>	<u>21</u>	<u>N</u>	<u>UPL</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>22</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes _____ No <u>X</u>		
Remarks:				

SOIL

Sampling Point: _____

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

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

HYDROLOGY

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

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

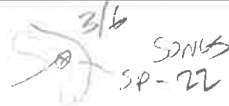
Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/12
 Applicant/Owner: SDGE State: CA Sampling Point: SP-22
 Investigator(s): A. BORCHERT, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): CANYON Local relief (concave, convex, none): CONCAVE Slope (%): _____
 Subregion (LRR): LRR C Lat: 33.38147487 Long: -117.5568710 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 (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Sambucus mexicana</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Baccharis salicifolia</u>	<u>15</u>	<u>N</u>	<u>FACW</u>	OBL species _____ x 1 = _____
3. <u>Mollemia laevis</u>	<u>50</u>	<u>Y</u>	<u>UPL</u>	FACW species _____ x 2 = _____
4. <u>STIPA Coronata</u>	<u>15</u>	<u>N</u>	<u>UPL</u>	FAC species _____ x 3 = _____
5. <u>Baccharis pilularis</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	FACU species _____ x 4 = _____
<u>115</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Hirschfeldia incana</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Anagallis arvensis</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>17</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
<u>132</u> = Total Cover				
% Bare Ground in Herb Stratum <u>15</u> % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
Remarks:				

SOIL

Sampling Point: _____

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

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

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators 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)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

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

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

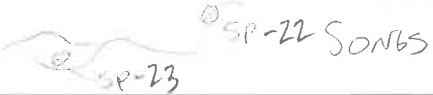
Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15
 Applicant/Owner: SOBE State: CA Sampling Point: SP-23
 Investigator(s): A. BORCHERT, 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°N Long: -117.5530700 Datum: NAD83
 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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Platanus racemosa</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
2. <u>Salix lasiolepis</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				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 = _____
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Malosoma laevigata</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
= Total Cover				
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Anagallis arvensis</u>	<u>21</u>	<u>N</u>	<u>FAC</u>	
2. <u>Cyperus esculentus</u>	<u>21</u>	<u>N</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
= Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum <u>30</u> % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <u>X</u> 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		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

HYDROLOGY

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

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15
 Applicant/Owner: A. BORCHERT, D. HUSS State: CA Sampling Point: SP-24
 Investigator(s): A. BORCHERT, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): Basin Local relief (concave, convex, none): CONCAVE Slope (%): 0
 Subregion (LRR): LRR C Lat: 33.3805160 Long: -117.56437598 Datum: NAD83
 Soil Map Unit Name: Visalia sandy NWI classification: EMB WET

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <div style="text-align: center; border: 1px solid black; border-radius: 50%; width: 100px; margin: 0 auto; padding: 5px;"> Det Basin SP-24 </div>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Xanthoxylum stramonium</u>	<u>42</u>	<u>N</u>	<u>FAC</u>	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Cyperus esculentus</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Lolium perenne</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Lycium hirsutum pifolia</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Plantain lanceolata</u>	<u>10</u>	<u>N</u>	<u>FAC-</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Rumex sp. (too early to key)</u>	<u>30</u>	<u>Y</u>	<u>IND</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>80</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>15</u>		% Cover of Biotic Crust _____		
Remarks:				

SOIL

Sampling Point: _____

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

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

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5) (LRR C)</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR D)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p>	<p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Vernal Pools (F9)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR C)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR B)</p> <p><input type="checkbox"/> Reduced Vertic (F18)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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Remarks: _____

- no soil pits, assumed

HYDROLOGY

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

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

Remarks: _____

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-25
 Investigator(s): A. BOKLITZER, 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: 33.38054338 Long: -117.56445092 Datum: NAD83
 Soil Map Unit Name: VISALIA SANDY NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: 

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				OBL species _____ x 1 = _____
1. <u>Eriogonum fasciculata</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	FACW species _____ x 2 = _____
2. <u>Baccharis salicifolia</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	FAC species _____ x 3 = _____
3. _____	_____	_____	_____	FACU species _____ x 4 = _____
4. _____	_____	_____	_____	UPL species _____ x 5 = _____
5. _____	_____	_____	_____	Column Totals: _____ (A) _____ (B)
_____ = Total Cover				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>Bromus madroterensis</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Bromus diandrus</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Arcanobactra</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Plantain lanceolata</u>	<u>2</u>	<u>N</u>	<u>FAC-</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			

Remarks:

SOIL

Sampling Point: _____

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

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

HYDROLOGY

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

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

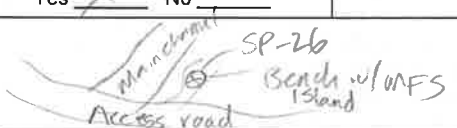
Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO CNTY Sampling Date: 6/3/15
 Applicant/Owner: SD BE State: CA Sampling Point: SP-26
 Investigator(s): A. BARBER, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): BENCH Local relief (concave, convex, none): NONE Slope (%): 5
 Subregion (LRR): LRR C Lat: 33.3834904 Long: -117.56917847 Datum: NAD 83
 Soil Map Unit Name: RIVERWASH NWI classification: RIVERLINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>SAN ONDRE</u> 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis salicifolia</u>	<u>60</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Lotus scoparius</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Bromus madritensis</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Hirschfeldia incana</u>	<u>2</u>	<u>N</u>		<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: 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 Soils³: ___ 1 cm Muck (A9) (LRR C) ___ 2 cm Muck (A10) (LRR B) ___ Reduced Vertic (F18) ___ Red Parent Material (TF2) ___ Other (Explain in Remarks)
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³Indicators 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)	Secondary Indicators (2 or more required)
___ Surface Water (A1) ___ High Water Table (A2) ___ Saturation (A3) ___ Water Marks (B1) (Nonriverine) <input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine) ___ Drift Deposits (B3) (Nonriverine) <input checked="" type="checkbox"/> 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)
___ 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 <input checked="" type="checkbox"/>	Depth (inches): <input checked="" type="checkbox"/>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches): <input checked="" type="checkbox"/>	
Saturation Present? (includes capillary fringe)	Yes ___ No <input checked="" type="checkbox"/>	Depth (inches): <input checked="" type="checkbox"/>	

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

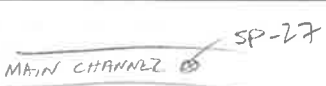
Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO COUNTY Sampling Date: 6/3/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-27
 Investigator(s): A. BORLCHER, O. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): _____
 Subregion (LRR): LRRC Lat: 33.3836220 Long: -117.56921876 Datum: WGS 84
 Soil Map Unit Name: RIVERWASH NWI classification: RIVERLINE

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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks: <div style="font-family: cursive; font-size: 1.2em;"> SAN ONOFRE MAIN CHANNEL  </div>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis salicifolia</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Artemisia californica</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
<u>32</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Gratiola bicolor</u>	<u>41</u>	<u>N</u>	<u>UPL</u>	___ Dominance Test is >50%
2. _____	_____	_____	_____	___ Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
<u>32</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <u>X</u> 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		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

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

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

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

Indicators for Problematic Hydric Soils³:

³Indicators 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)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input checked="" type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

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

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

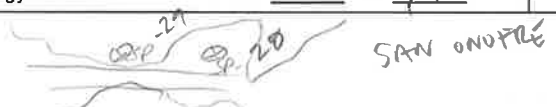
Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO CNTY Sampling Date: 4/3/15
 Applicant/Owner: SOGE State: CA Sampling Point: SP-20
 Investigator(s): A. BORRER, D. IVSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): BENCH Local relief (concave, convex, none): SLOPE Slope (%): 3
 Subregion (LRR): LRR C Lat: 33.38366705 Long: -117.56139353 Datum: WGS 84
 Soil Map Unit Name: RIVERWASH NWI classification: FRA WTR FOREST

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____	_____	_____	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. <u>Isocoma menziesii</u>	<u>5</u>	<u>Y</u>	<u>VPL</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Artemisia californica</u>	<u>5</u>	<u>Y</u>	<u>VPL</u>	OBL species _____ x 1 = _____
3. <u>Eriogonum fasciculatum</u>	<u>2</u>	<u>N</u>	<u>VPL</u>	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
= Total Cover				UPL species _____ x 5 = _____
Herb Stratum (Plot size: _____)				Column Totals: _____ (A) _____ (B)
1. <u>Hirschfeldia incana</u>	<u>30</u>	<u>Y</u>	<u>VPL</u>	Prevalence Index = B/A = _____
2. <u>Bromus madretensis</u>	<u>2</u>	<u>N</u>	<u>VPL</u>	
3. <u>Filago gallica</u>	<u>5</u>	<u>N</u>	<u>VPL</u>	
4. <u>Stephanomeria virgata</u>	<u>21</u>	<u>N</u>	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
= Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks: _____				

SOIL

Sampling Point: _____

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

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

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

Remarks:
NO soil pits, assumed

HYDROLOGY

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

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

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. ROBERTS, 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: NAD 83
 Soil Map Unit Name: Visalia Sundry NWI classification: FRESH WTR FOREST

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <u>SAN UNDFRE</u> 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix laurifolia</u>	<u>80</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____				
<u>80</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>Cenium maculatum</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Hirschfeldia incana</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Artemisia oblongifolia</u>	<u>35</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>67</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present?
1. _____				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____				
<u>147</u> = Total Cover				
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

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

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

³Indicators 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)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Water Marks (B1) (Riverine)
	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input type="checkbox"/> FAC-Neutral Test (D5)

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: SAN DIEGO Sampling Date: 6-4-15
 Applicant/Owner: SOBE State: CA Sampling Point: SP-30
 Investigator(s): A. BOICHER 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: -117.58461073 Datum: WGS84
 Soil Map Unit Name: Salinus 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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks: "JUNGLE" SP-30 <u>Dense riparian</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix laevigata</u>	<u>80</u>	<u>Y</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)
4. _____				
<u>80</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Taxodium diversiflorum</u>	<u>40</u>	<u>Y</u>	<u>VPL</u>	Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>40</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Conium maculatum</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Picris esculenta</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Senecio jacobinae</u>	<u>3</u>	<u>N</u>	<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>43</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes <u>X</u> No _____
2. _____				
<u>165</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

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

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

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

Field Observations:

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

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

Saturation Present? (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:

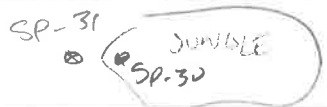
Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO CNTY Sampling Date: 6/4/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-31
 Investigator(s): A. BORCHERT, 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: NAD 83
 Soil Map Unit Name: Salinas clay NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. <u>Denonimia fasciculata</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Elymus trichoides</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
<u>32</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>Coryza canadensis</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. _____	_____	_____	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>2</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____	
<u>34</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

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

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

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

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

HYDROLOGY

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

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO CNTY Sampling Date: 4/5/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-32
 Investigator(s): A. BOECHER, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): channel bench Local relief (concave, convex, none): CONCAVE Slope (%): NONE
 Subregion (LRR): LRR C Lat: 33.39539907 Long: -117.53949074 Datum: NLS 84
 Soil Map Unit Name: TUJUNGA SAND NWI classification: FWS WTR FOR

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <u>SAN MATED</u> <u>SP-32</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Sambucus mexicana</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)
2. <u>Juglans californica</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____				
<u>45</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Artemisia douglasiana</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>5</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Carex maculatum</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Ambrosia psilostachyis</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Bromus diandrus</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>72</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

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

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

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

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

Indicators for Problematic Hydric Soils³:

³Indicators 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:

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

<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations:

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

(includes capillary fringe)

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: 8/5/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-33
 Investigator(s): A. BOLCHER, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): CHANNEL Local relief (concave, convex, none): CONCAVE Slope (%): 1
 Subregion (LRR): LRR C Lat: 33.3903296 Long: -117.53922406 Datum: NBS 84
 Soil Map Unit Name: RIVERWASH NWI classification: RIVERINE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input type="checkbox"/>	Hydric Soil Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input type="checkbox"/>		
Remarks: <u>SAN MATED</u> <u>Channel</u> <u>SP-33</u> <u>Channel</u> <u>Bank</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Salix lasiolepis</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
2. _____				
3. _____				
4. _____				
<u>25</u> = Total Cover				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 = _____
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Baccharis salicifolia</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
2. _____				
3. _____				
4. _____				
5. _____				
<u>50</u> = Total Cover				
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Heliotropium grandiflorum</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Gnaphalium bicolor</u>	<u>12</u>	<u>N</u>	<u>UPL</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
<u>7</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
<u>0</u> = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks:				

SOIL

Sampling Point: _____

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

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

HYDROLOGY

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

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: SAN DIEGO COUNTY Sampling Date: 6/5/15
 Applicant/Owner: SDBE State: CA Sampling Point: SP-34
 Investigator(s): A. BARRETT, D. HUSS Section, Township, Range: NAT
 Landform (hillslope, terrace, etc.): Bench Local relief (concave, convex, none): None Slope (%): 1
 Subregion (LRR): LRR C Lat: 33.39582724 Long: -117.58920771 Datum: WGS 84
 Soil Map Unit Name: RIVERWASH NWI classification: FCSH WTR FOR

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>SAN MATED</u> <u>CHAN SP-34</u> <u>ISLAND BENCH SP-33</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Artemisia californica</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Cynopteron bicolor</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Halimolobos grandiflora</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Bromus diandrus</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>20</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

SOIL

Sampling Point: _____

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

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

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

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

³Indicators 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)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

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

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

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

Wetland Hydrology Present? Yes No _____

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

Remarks:


WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: CP/SD Sampling Date: 10/2/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-35
 Investigator(s): A. BORCHERT, D. HISS Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): DEPRESSION Local relief (concave, convex, none): Convex Slope (%): 0
 Subregion (LRR): LRR C Lat: 33.33705142 Long: 117.35531141 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 (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

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. <u>Rhus copallina</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Ficus virens</u>	<u>1</u>	<u>N</u>	<u>NT</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
= Total Cover				
Herb Stratum (Plot size: _____)				
1. <u>Bromus diandrus</u>	<u>15</u>	<u>Y</u>	<u>NI</u>	
2. <u>Pennisetum</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Brassica nigra</u>	<u>15</u>	<u>Y</u>	<u>NI</u>	
4. <u>Polygonum mono</u>	<u>5</u>	<u>N</u>	<u>FACN</u>	
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:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

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		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators 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 excavated due to potential cultural resources*

HYDROLOGY

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

Field Observations:
 Surface Water Present? Yes _____ No _____ Depth (inches): _____
 Water Table Present? Yes _____ No _____ Depth (inches): _____
 Saturation Present? Yes _____ No _____ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No

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

Remarks:
NONE, on beam 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: SOBE State: CA Sampling Point: SP-36
 Investigator(s): A. BORCHERT, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): DEPRESSION Local relief (concave, convex, none): _____ Slope (%): 0
 Subregion (LRR): LRR C Lat: 33.39207563 Long: -117.56537253 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 _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: <div style="text-align: center;"> <p>35 — road out SP-36 @ Depression</p> </div>	

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. <i>Polypogon monspeliensis</i>	20	N	FACW	
2. <i>Pennis setacea</i>	5	N	FAC	
3. <i>Lolium perenne</i>	80	Y	FAC	
4. <i>Brassica nigra</i>	15	N	NI	
5. <i>Veronica peruviana</i>	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 _____			
Remarks:				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>5</u> x 1 = <u>5</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>85</u> x 3 = <u>255</u> FACU species _____ x 4 = _____ UPL species <u>15</u> x 5 = <u>75</u> Column Totals: <u>125</u> (A) <u>375</u> (B) Prevalence Index = B/A = <u>3</u> Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> No _____

SOIL

Sampling Point: _____

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

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

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators 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 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) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	Secondary Indicators (2 or more required) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: CP/SD Sampling Date: 10/2/15
 Applicant/Owner: SOBE State: CA Sampling Point: SP 37
 Investigator(s): A. BORCHERT, D. HUSS Section, Township, Range: NA
 Landform (hillslope, terrace, etc.): ROAD CUT 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 No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: <div style="text-align: center; font-size: 1.2em; font-family: cursive;"> SP 37 road cut depression </div>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:
1. <u>Croquis 5</u>	<u>50</u>	<u>Y</u>	<u>OBL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Panicum racemosus</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Polygonum monosperum</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> 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		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

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

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators 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 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)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

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

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

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

Wetland Hydrology Present? Yes No

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

Remarks:

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