

MEMORANDUM

TO: Debbie Collins, San Diego Gas & Electric

Tamara Spear, San Diego Gas & Electric

FROM: Darin Busby, Busby Biological Services, Inc.

DATE: April 15, 2015

RE: Final Supplemental Jurisdictional Delineation Memorandum for

the Encina Hub Portion of the Proposed Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project, San Diego

County, California

On behalf of Chambers Group, Inc. and San Diego Gas & Electric Company (SDG&E), Busby Biological Services, Inc. (BBS) conducted a supplemental jurisdictional delineation for SDG&E's Sycamore to Peñasquitos 230 kilovolt (kV) Transmission Line Project (Proposed Project) located in San Diego County, California (Appendix A: Figure 1). Environmental Intelligence, LLC (EI) conducted the jurisdictional delineation within the original 500-foot wide Biological Survey Area (BSA) for the Proposed Project (EI 2014). This supplemental jurisdictional delineation was conducted to identify and delineate all jurisdictional wetland resources within a newly added portion of the Proposed Project, referred to as the Encina Hub (Appendix A: Figure 2), that are potentially under the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), California Department of Fish and Wildlife (CDFW), and/or the California Coastal Commission (CCC).

This memorandum provides a brief description of Proposed Project, regulatory setting, methods, and results. This information is intended to supplement the information provided in the Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project (El 2014). Please refer to the El jurisdictional delineation report for more detailed information on the Proposed Project, regulatory framework, and methods. For additional information pertaining to the biological resources associated with the Proposed Project, please refer to the Biological Technical Report (BTR; BBS 2014).

1.0 PROPOSED PROJECT LOCATION AND BACKGROUND INFORMATION

In an effort to increase the efficiency and supply of renewably generated power to the California Independent System Operator (CAISO) grid, CAISO has identified a policy-

driven need for a new 230 kV transmission line to connect the existing SDG&E Sycamore Canyon and Peñasquitos Substations. To satisfy the need for this new 230 kV transmission line, SDG&E proposes to construct and operate a new, approximately 16.5-mile 230 kV transmission line between the existing SDG&E Sycamore Canyon and Peñasquitos Substations (Appendix A: Figure 1). The Proposed Project would also include the consolidation of two existing 69 kV power lines onto new double-circuit, steel structures that would replace existing, predominantly wood structures. All new transmission line facilities would be located within existing SDG&E Right-of-Way or within franchise position within existing public roadways.

During the initial planning phases of the Proposed Project, a 500-foot wide BSA was designated, and all biological studies associated with the Proposed Project were conducted within the BSA, including the original jurisdictional delineation conducted by EI and summarized in the Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project (EI 2014).

Since the initial biological studies were conducted within the BSA, several new areas have been added to the Proposed Project, including the Encina Hub. Additional biological surveys, including a jurisdictional delineation, are required within the areas that were not included in the original BSA. These additional biological surveys are being conducted in 2015 and will be summarized in various technical reports once these surveys have been completed.

This memorandum focuses on the regulatory setting, methods, and results for the focused jurisdictional delineation that was performed for the Encina Hub (Appendix A: Figures 1 through 4). The jurisdictional delineation survey area (survey area) for the Encina Hub is composed of the Proposed Project access roads with a 20-foot survey buffer and the Proposed Project work areas with 50-foot survey buffers (Appendix A: Figures 2 through 4). This memorandum is intended to supplement the information provided in the jurisdictional delineation report that was prepared by EI for the original BSA (EI 2014).

2.0 REGULATORY FRAMEWORK

A brief description of the regulatory framework of the USACE, RWQCB, CDFW, and the CCC is provided below.

2.1 U.S. Army Corps of Engineers

USACE regulates the discharge of dredged and/or fill material, both temporary and permanent, into waters of the U.S. and wetland waters of the U.S., pursuant to Section 404 of the Clean Water Act (CWA). USACE waters of the U.S. are delineated by the lateral and upstream/downstream extent of the ordinary high watermark (OHWM). USACE wetland waters of the U.S. are areas that contain wetland hydrology, hydric soils, and hydrophytic vegetation.

2.2 Regional Water Quality Control Board

RWQCB regulates discharge of dredged and/or fill material into waters of the State and wetland waters of the State, including isolated waters such as vernal pools and other waters showing lack of connectivity to a Traditional Navigable Waters (TNW), pursuant to Section 404 of the CWA and/or Section 13000 *et. seq.* of the California Water Code under the Porter-Cologne Water Quality Control Act. RWQCB waters of the State and wetland waters of the State regulated under Section 404 of the CWA are all areas defined as USACE waters of the U.S. and wetland waters of the U.S.

2.3 California Department of Fish and Wildlife

CDFW regulates activities that would substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake, pursuant to Section 1600 *et. seq.* of the California Fish and Game Code. CDFW typically extends its jurisdictional limit to the top of a stream, the bank of a lake, or the outer edge of the riparian vegetation, whichever is wider. In addition, CDFW asserts jurisdiction over vernal pools only when California state threatened and/or endangered species (e.g., thread-leaved brodiaea [*Brodiaea filifolia*, FAC]) are present.

2.4 California Coastal Commission

CCC regulates the drilling, filling, or dredging of wetlands within the coastal zone, pursuant to Section 30000 *et. seq.* of the California Public Resource Code under the California Coastal Act. CCC takes jurisdiction over wetlands within the Coastal Zone with only one criterion (i.e., wetland hydrology, hydric soils, <u>or</u> hydrophytic vegetation) required to be present in order for jurisdiction to be asserted.

3.0 METHODS

Prior to conducting the field survey, BBS conducted a desktop assessment for drainages and other aquatic resources. This desktop review consisted of a review of the Jurisdictional Delineation of San Diego Gas & Electric's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project (El 2014), U.S. Geological Survey 7.5- minute San Luis Rey topographic quadrangle containing the site, the U.S. Fish and Wildlife Service National Wetlands Inventory maps, and the U.S. Department of Agriculture Natural Resources Conservation Service Web Soil Survey and National List of Hydric Soils.

The field surveys were conducted using comparable techniques outlined in the El jurisdictional delineation report (El 2014) and the technical guidelines in the USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0; USACE 2008). In addition, other aquatic features were identified pursuant to criteria outlined in Section 1600 *et. seq.* of the California Fish and Game Code for CDFW jurisdictional areas and pursuant to the California Code of

Regulations Title 14 for CCC wetlands. All USACE data Pages are included in Appendix B.

4.0 RESULTS

BBS biologist Darin Busby and Trestles Environmental Corporation biologist Julie Fontaine conducted the majority of the jurisdictional delineation on January 28, 2015. The remaining portion of the jurisdictional delineation was completed by Mr. Busby on February 17, 2015. The survey area is composed of the Proposed Project access roads with a 20-foot survey buffer and the Proposed Project work areas with 50-foot survey buffers (Appendix A: Figures 2 through 4).

Five jurisdictional features occur within the survey area. A general description of the land use and vegetation, topography and hydrology, and soils within the survey area are provided in Section 4.1. A more detailed discussion of each jurisdictional feature is described in Section 4.2. In addition, Section 4.3 describes the exempt non-jurisdictional erosional features, swales, and concrete v-ditches within the survey area. A summary of the jurisdictional features is provided in Section 4.4. The boundaries and jurisdictions of these jurisdictional features are depicted in Appendix A (Figure 4, Pages 1 through 4), and detailed USACE data forms and photographs of the Sample Points are provided in Appendix B (USACE Data Forms) and Appendix C (Site Photographs).

4.1 General Description of Survey Area

This section provides a general description of the land use and vegetation, topography and hydrology, and soils within the survey area.

Land Use and Vegetation

Land use within the survey area consists primarily of undeveloped land and natural preserve lands. Adjacent land use includes a municipal golf course, hotels, agriculture, and additional undeveloped land and preserve lands. The survey area is dominated by the following vegetation communities: Diegan coastal sage scrub, disturbed Diegan coastal sage scrub, disturbed habitat, and bare ground. Other vegetation communities present in smaller proportions include southern riparian scrub, mulefat scrub, nonnative grassland, native grassland, ornamental, and developed lands (Appendix A: Figure 3).

Topography and Hydrology

The survey area contains gently sloping to moderately sloping topography, with elevations ranging from 240 feet above mean sea level (amsl) in the southern portion of the survey area to 40 feet amsl in the northeastern portion of the survey area. An un-named ephemeral drainage in the southwestern portion of the site runs north to connect with a riparian corridor in an unnamed canyon drainage within the northeastern portion of the survey area that provides intermittent to perennial surface

flows. These unnamed drainages eventually connect to Agua Hedionda Lagoon approximately 1,000 feet northwest of the survey area and the Pacific Ocean approximately 2 miles northwest of the survey area, both of which are TNWs.

Soils

The survey area contains the following soil types: Las Flores loamy fine sand, 15 to 30 percent slopes (LeE), Las Flores loamy fine sand, 2 to 9 percent slopes (LeC), and Salinas clay loam, 2 to 9 percent slopes (SbC) (NRCS 2015a). None of these soils are listed as a hydric soil by the Natural Resources Conservation Services (NRCS 2015b).

4.2 Description of Jurisdictional Features

This section provides a detailed description of each of the five jurisdictional drainage features that were identified within the survey area. A summary of the jurisdictional acreage of each feature is provided in Table 1.

Feature 1

Feature 1 occurs within a riparian corridor in the northeastern edge of the survey area (Appendix A: Figure 4, Page 2). This wetland feature is adjacent to and west of a braided channel dominated by southern riparian scrub, mulefat scrub, and fresh water marsh. The braided channel showed strong evidence of moderate to high-velocity flows (i.e., sediment deposits, debris jams, vegetation destruction, and disturbed leaf litter at the OHWM) and is an unnamed tributary to Agua Hedionda Creek, which connects to Agua Hedionda Lagoon and the Pacific Ocean.

Feature 1 is approximately 0.05 acre (approximately 160.72 linear feet) of USACE adjacent wetland waters of the U.S. and RWQCB wetland waters of the State, approximately 0.12 acre (approximately 200.78 linear feet) of CDFW Riparian and CCC Wetland (Table 1). The detailed USACE data forms and photographs of Sample Points 1 through 3 are provided in Appendix B (USACE Data Forms) and Appendix C (Site Photographs).

Feature 2

Feature 2 is located west of Feature 1 at the bottom of a swale in the northeastern edge of the survey area (Appendix A: Figure 4, Page 2). Feature 2 is dominated by mulefat scrub and has no OHWM or hydrological connection to Feature 1 or the main drainage channel that is just east of Feature 1 and outside the survey area. Feature 2 occurs over 100 feet west of the main drainage channel and is separated from Feature 1 by upland vegetation and a dirt access road that has formed a berm along the eastern edge of Feature 2. The high clay content of the soils in this area, combined with the berm formed by the road, has resulted in an isolated patch of mulefat scrub.

Table 1. Summary of Total Jurisdiction by Feature Number and Regulatory Agency

		US	ACE			CD	FW			RW	QCB			
		land D.U.S	W.O	.U.S	Ripa	arian	U.	S.		tland O.S	W.	0.S	CCC W	/etland
Feature		linear		linear		linear		linear		linear		linear		linear
Number	acres	feet	acres	feet	acres	feet	acres	feet	acres	feet	acres	feet	acres	feet
1	0.05	160.72			0.12	200.78	-		0.05	160.72	-		0.12	200.78
2													0.08	136.69
3			0.01	107.23			0.01	107.23			0.01	107.23	0.01	107.23
4			0.01	137.45			0.01	137.45			0.01	137.45	0.01	137.45
5			0.00*	29.22			0.00*	29.22			0.00*	29.22	0.00	29.22
Total	0.05	160.72	0.02**	273.90	0.12	200.78	0.02**	273.90	0.05	160.72	0.02**	273.90	0.23**	611.37

^{*}Acreages are approximate and rounded to the nearest hundredth of an acre.

Wetland W.O.U.S = Wetland waters of the U.S. W.O.U.S = Waters of the U.S. Wetland W.O.S = Wetland waters of the State W.O.S = Waters of the State U.S. = Unvegetated Streambed

^{**}Totals represent actual totals without rounding error.

Feature 2 contains a total of approximately 0.08 acre (approximately 136.69 linear feet) of CCC Wetland (Table 1). The detailed wetland data forms and photographs of Sample Points 4 and 5 are provided in Appendix B (USACE Data Forms) and Appendix C (Site Photographs).

Feature 3

Feature 3 is an unnamed ephemeral drainage that runs from the southern to central portion of the survey area, eventually connecting offsite to the unnamed wetland associated with Feature 1, which connects to Agua Hedionda Creek, Agua Hedionda Lagoon, and the Pacific Ocean (Appendix A: Figure 4, Page 3). Feature 3 contains an OHWM and is moderately incised with hard sands and cobbles which are associated with high water velocities during and directly after storm events. This feature is approximately 4 feet wide and 3 feet deep below the surrounding uplands. The surrounding vegetation above the OHWM at the top of the bank contains disturbed Diegan coastal sage scrub.

Feature 3 contains a total of approximately 0.01 acre (approximately 107.23 linear feet) of USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed, and CCC Wetland (Table 1). The location of Feature 3 and the boundaries of these jurisdictions are provided in Page 3 of Figure 4 (Appendix A). The detailed USACE data form and photograph of Sample Points 6 is provided in Appendix B (USACE Data Forms) and Appendix C (Site Photographs).

Feature 4

Feature 4 is an unnamed ephemeral drainage that runs offsite to the northeast from the central portion of the survey area, eventually connecting offsite to the unnamed wetland associated with Feature 1, which connects to Agua Hedionda Creek, Agua Hedionda Lagoon, and the Pacific Ocean (Appendix A: Figure 4, Page 3). Feature 4 contains an OHWM and is moderately incised with hard sands and cobbles which are associated with high water velocities during and directly after storm events. This feature is approximately 2 to 4 feet wide and 1 to 2 feet deep below the surrounding uplands. The surrounding vegetation above the OHWM at the top of the bank contains disturbed Diegan coastal sage scrub.

Feature 4 contains a total of approximately 0.01 acre (approximately 137.45 linear feet) of USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed, and CCC Wetland (Table 1). The location of Feature 4 and the boundaries of these jurisdictions are provided in Page 3 of Figure 4 (Appendix A). The detailed wetland data form and photograph of Sample Points 7 is provided in Appendix B (Wetland Data Forms) and Appendix C (Site Photographs).

Feature 5

Feature 5 is an unnamed ephemeral drainage that begins at the base of an eroded, filled slope associated with an adjacent dirt access road. The drainage runs offsite to the east from the southeastern portion of the survey area, eventually connecting offsite to the unnamed wetland associated with Feature 1, which connects to Agua Hedionda Creek, Agua Hedionda Lagoon, and the Pacific Ocean (Appendix A: Figure 4, Page 5).

Feature 5 contains an OHWM and is moderately incised with hard sands and cobbles which are associated with high water velocities during and directly after storm events. This feature is approximately 4 feet wide and 3 feet deep below the surrounding uplands. The surrounding vegetation above the OHWM at the top of the bank contains disturbed Diegan coastal sage scrub.

Feature 5 contains less than 0.01 acre (approximately 29.22 linear feet) of USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed, and CCC Wetland (Table 1). The location of Feature 5 and the boundaries of these jurisdictions are provided in Page 5 of Figure 4 (Appendix A). The detailed USACE data form and photograph of Sample Points 8 is provided in Appendix B (USACE Data Forms) and Appendix C (Site Photographs).

4.3 Description of Exempt, Non-jurisdictional Swales, Erosional Features and Concrete V-Ditches

A total of approximately 462 linear feet of exempt, non-jurisdictional concrete v-ditches are present within the survey area (Appendix A: Figure 4, Pages 1 and 2). The USACE and other regulatory agencies generally do not assert jurisdiction over concrete v-ditches, which are considered municipal separate storm sewer systems (MS4) erosion control features. The concrete v-ditches within the survey area have been built in uplands to capture erosional runoff from the surrounding dirt access roads and power line tower pads and transmit it to the municipal storm sewer system.

In addition, several swales and erosional features occur within and adjacent to the dirt access roads and power line tower pads within the survey area. The USACE and other regulatory agencies generally do not assert jurisdiction over erosional features, such as gullies, small washes, and swales that are characterized by low volume and infrequent or short duration flows. Riprap, waterbars, and fiber rolls have been placed in some portions of these erosional features to provide erosion control support.

4.4 Summary of Jurisdictional Features

A summary of the acreage, itemized by regulatory agency and vegetation community, is provided in Table 2 and summarized below.

Table 2. Summary of Total Jurisdiction by Regulatory Agency and Vegetation Community

Regulatory	Total	Total		Domi	inant Vegetation T	ype (acre)	
Agency	Acres	Linear Feet	Bare Ground	Diegan Coastal Sage Scrub	Diegan Coastal Sage Scrub - Disturbed	Mulefat Scrub	Southern Riparian Scrub
USACE (Total)	0.07**	434.62	0.00*	0.01	0.01	0.00	0.05
Wetland W.O.U.S	0.05	160.72	0.00	0.00	0.00	0.00	0.05
W.O.U.S	0.02**	273.90	0.00*	0.01	0.01	0.00	0.00
RWQCB (Total)	0.07**	434.62	0.00*	0.01	0.01	0.00	0.05
Wetland W.O.S	0.05	160.72	0.00	0.00	0.00	0.00	0.05
W.O.S	0.02**	273.90	0.00*	0.01	0.01	0.00	0.00
CDFW (Total)	0.15**	474.68	0.00*	0.01	0.01	0.00	0.13
Riparian	0.13	200.78	0.00	0.00	0.00	0.00	0.13
U.S.	0.02**	273.90	0.00*	0.01	0.01	0.00	0.00
CCC (Total)	0.23**	611.37	0.00*	0.01	0.01	0.08	0.12

^{*}Acreages are approximate and rounded to the nearest hundredth of an acre.

Wetland W.O.U.S = Wetland waters of the U.S. W.O.U.S = Waters of the U.S. Wetland W.O.S = Wetland waters of the State W.O.S = Waters of the State

U.S. = Unvegetated Streambed

^{**}Totals represent actual totals without rounding error.

USACE Jurisdiction

A total of four features that are under the jurisdiction of USACE were identified within the survey area. Of these four features, one feature (Feature 1; Appendix A: Figure 4, Page 2) has a total of approximately 0.05 acre (approximately 160.72 linear feet) of USACE wetland waters of the U.S., and the other three features (Features 3 through 5; Appendix A: Figure 4, Pages 3 and 4) have a total of approximately 0.02 acre (approximately 273.90 linear feet) of USACE waters of the U.S.

RWQCB Jurisdiction

A total of four features that are under the jurisdiction of RWQCB were identified within the survey area. Of these four features, one feature (Feature 1; Appendix A: Figure 4, Page 2) has a total of approximately 0.05 acre (approximately 160.72 linear feet) of RWQCB wetland waters of the State, and the other three features (Features 3 through 5; Appendix A: Figure 4, Pages 3 and 4) have a total of approximately 0.02 acre (approximately 273.90 linear feet) of RWQCB waters of the State.

CDFW Jurisdiction

A total of four features that are under the jurisdiction of CDFW were identified within the survey area. Of these four features, one feature (Feature 1; Appendix A: Figure 4, Page 2) has a total of approximately 0.13 acre (approximately 200.78 linear feet) of CDFW riparian and the other three features (Features 3 through 5; Appendix A: Figure 4, Pages 3 and 4) have a total of approximately 0.02 acre (approximately 273.90 linear feet) of CDFW unvegetated streambed.

CCC Jurisdiction

A total of five features that are under the jurisdiction of CCC were identified within the survey area. CCC jurisdiction totals approximately 0.23 acre (approximately 611.37 linear feet) of CCC wetland within Features 1 through 5 (Appendix A: Figure 4, Pages 2 through 4).

5.0 CONCLUSION

Any anticipated Proposed Project impacts to these features would require the appropriate permit authorizations from the corresponding regulatory agency.

6.0 REFERENCES

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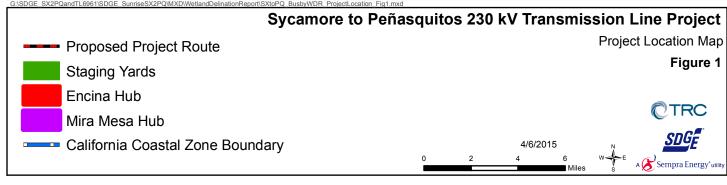
United States Army Corps of Engineers (USACE)

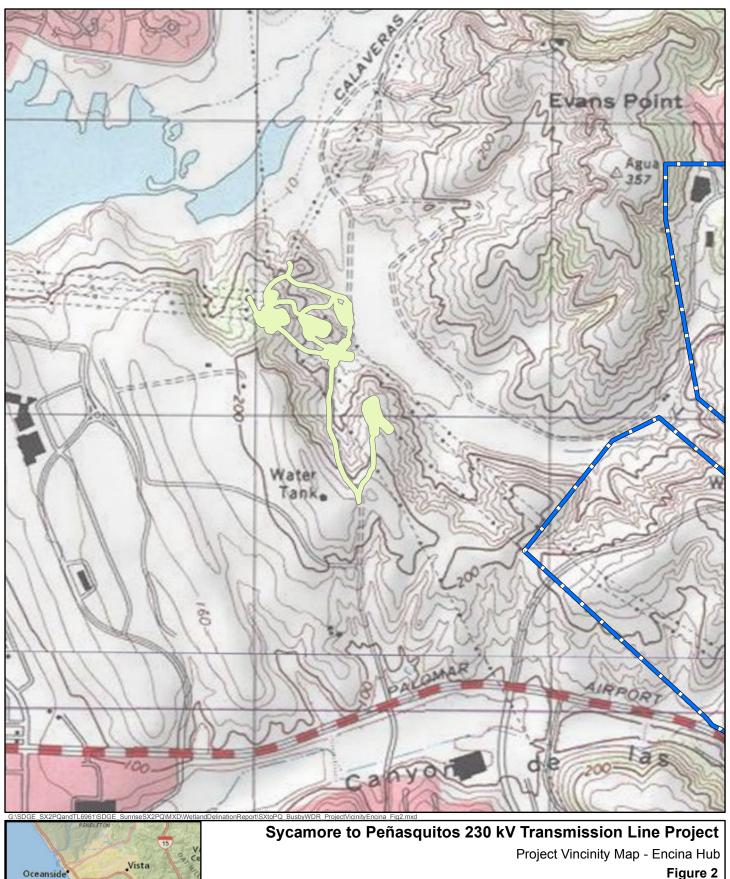
1987 *U.S. Army Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1, U.S. Army Engineer Waterways Experimental Station, Vicksburg, Mississippi.

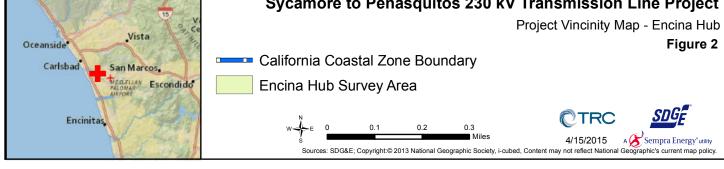
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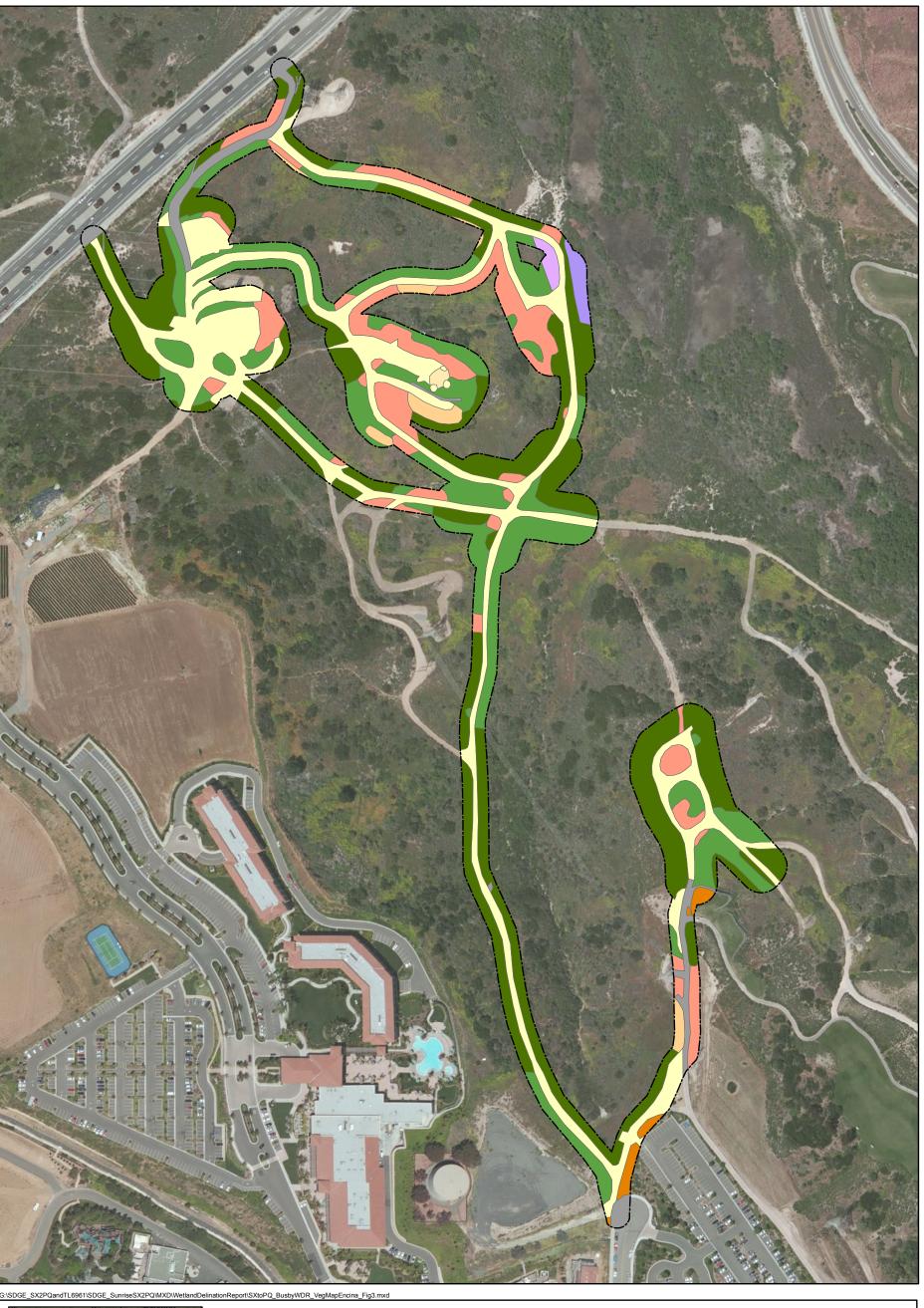
APPENDIX A: FIGURES

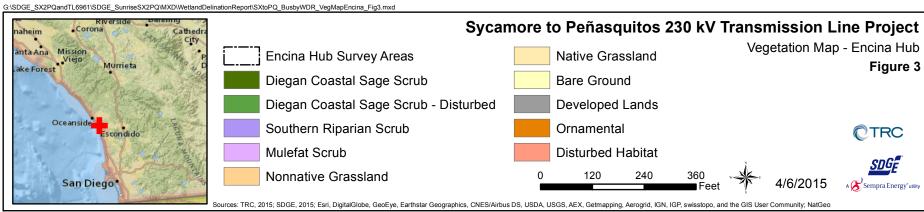


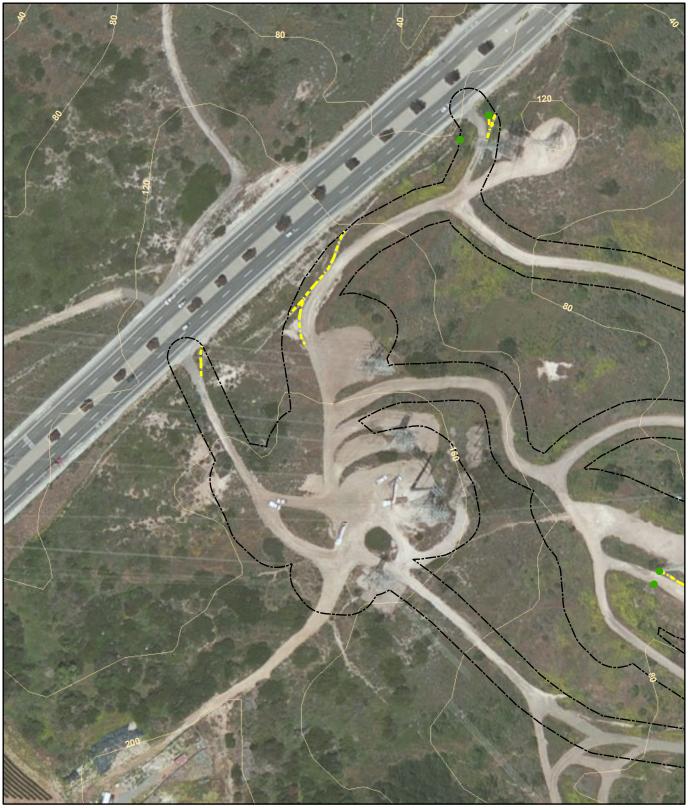




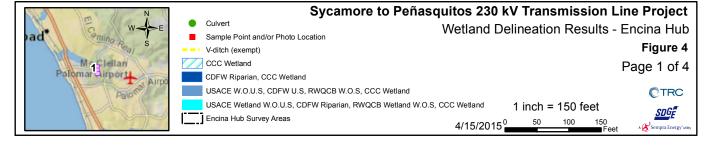


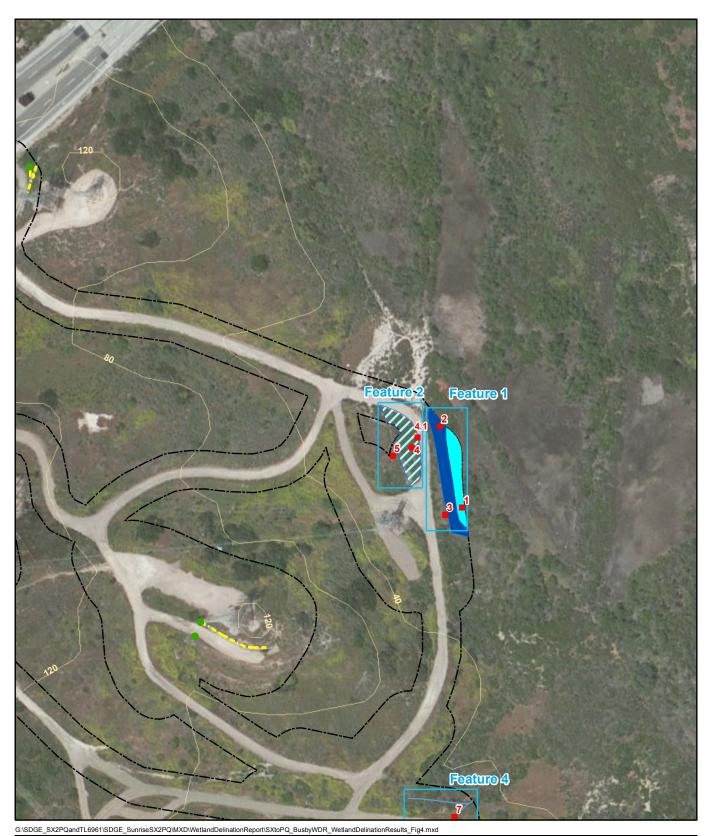




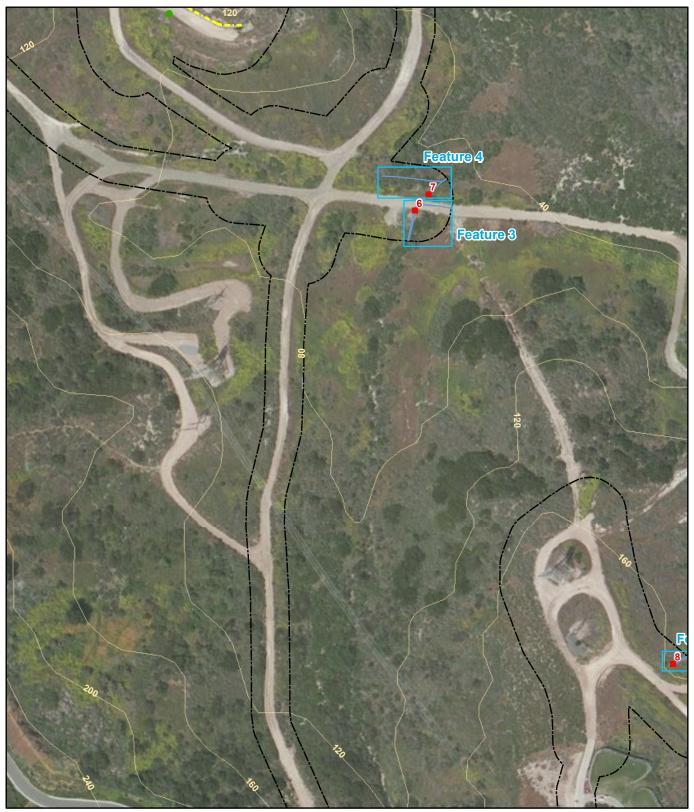


 $\label{thm:control} G\ SDGE_SX2PQ and TL6961\ SDGE_SunriseSX2PQ\ MXD\ Wetland Delination Report\ SX to PQ_BusbyWDR_Wetland Delination Results_Fig4.mxd$

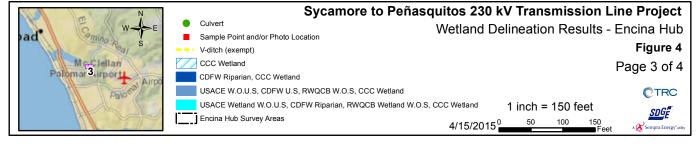




Sycamore to Peñasquitos 230 kV Transmission Line Project Wetland Delineation Results - Encina Hub Sample Point and/or Photo Location Figure 4 V-ditch (exempt) Meg lellan Palomar Lisport Page 2 of 4 CCC Wetland CDFW Riparian, CCC Wetland USACE W.O.U.S, CDFW U.S, RWQCB W.O.S, CCC Wetland **©TRC** USACE Wetland W.O.U.S, CDFW Riparian, RWQCB Wetland W.O.S, CCC Wetland 1 inch = 150 feet SDGE Encina Hub Survey Areas 4/15/2015 ⁰ A Sempra Energy's



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Sycamore to Peñasquitos 230 kV Transmission Line Project Culvert Wetland Delineation Results - Encina Hub Sample Point and/or Photo Location Figure 4 V-ditch (exempt) Page 4 of 4 CCC Wetland CDFW Riparian, CCC Wetland USACE W.O.U.S, CDFW U.S, RWQCB W.O.S, CCC Wetland **©TRC** USACE Wetland W.O.U.S, CDFW Riparian, RWQCB Wetland W.O.S, CCC Wetland 1 inch = 150 feet SDGE Encina Hub Survey Areas 4/15/2015 ⁰

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APPENDIX B: USACE DATA FORMS

WETLAND DETERMINAT	ON DATA FORM -	- Arid West Region
Project/Site: SDG&E Encina Hub	City/County: Carlsba	ad, San Diego Sampling Date: 1/28/15
		State: <u>CA</u> Sampling Point: 1
Investigator(s): J.Fontaine, D.Busby	Section, Township, Rai	nge:
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, o	convex, none): Slope (%):
Subregion (LRR): Lat:		Long: Datum:
Subregion (LRR): Soil Map Unit Name: Salinas clay loam, two	to nine per	ccent slopes (SbC) NWI dassification:
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes <u>X</u> No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "	Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Yes X Yes X Yes X No Yes X No Yes X YES YES X YES	Is the Sampled within a Wetlan	
Wetland Hydrology Present? Yes X No		
VEGETATION		
Absolute		Dominance Test worksheet:
1 Salix goodingii 50		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum 1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3.		OBL species x 1 =
4.		FACW species x 2 =
5		FAC species x 3 =
Total Cover:	_	FACU species x 4 =
Herb Stratum Salicornia virginica	V ODI	UPL species x 5 =
1. Salicornia virginica 20 2. Apiastrum angustifolium 5	$-\frac{Y}{N} - \frac{OBL}{FACU}$	Column Totals: (A) (B)
3		Prevalence Index = B/A =
4		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0 ¹
7		Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8		Problematic Hydrophytic Vegetation (Explain)
Total Cover: 25	_	Problemate Hydrophytic Vogetation (Explain)
1		¹ Indicators of hydric soil and wetland hydrology must be present.
2		Hydrophytic Vogetation
% Bare Ground in Herb Stratum % Cover of Biotic C	Crust	Vegetation Present?
Remarks:		1

Pepth	Matrix			ox Features	4					
nches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	-	Remar	ks
-2	10 YR 3/2	100				_n_	Sandy c	la <u>y loa</u>	m	
-13	2.5 Y 4/2	80	1.5 YR 4/8	20%	Redox	conc.	Loamy S	Sand R	Redox is di	stinct, promin
			Gley 2.5/N			tion,				
			Gley 2.5/11			,	-· <u>-</u>			
vpe: C=C	concentration, D=De	bletion.RM	I=Reduced Matrix.	² Location	: PL=Pore	 e Linina. F	RC=Root Cha	nnel. M=N	Matrix.	
			LRRs, unless othe						blematic Hyd	ric Soils³:
Histoso	I (A1)		_X Sandy Rec	lox (S5)			1 cm	Muck (A9	9) (LRR C)	
	pipedon (A2)		Stripped M						10) (LRR B)	
	listic (A3)		Loamy Mu	cky Minera	l (F1)		Redu	ced Verti	c (F18)	
	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red	⊃arent Ma	aterial (TF2)	
	d Layers (A5) (LRR	C)	Depleted N	1atrix (F3)			Othe	(Explain	in Remarks)	
	uck (A9) (LRR D)		Redox Dar							
	d Below Dark Surfa	ce (A11)	Depleted D							
-	ark Surface (A12)		Redox Dep	*	F8)		9			
-	Mucky Mineral (S1)		Vernal Poo	ıls (F9)				-	ophytic vegeta	
	Gleyed Matrix (S4)						wetlan	d hydrolo	gy must be pr	esent.
strictive	Layer (if present):									
_										
Depth (in	nches):						Hydric So	il Presen	t? Yes <u>X</u>	No
Depth (in	nches):						Hydric So	il Presen	t? Yes <u>X</u>	No
Depth (in	nches):									No
Depth (in marks:	oches):	:					Seco	ondary Ind		more required)
Depth (in marks: DROLC etland Hy mary Indi	oches): DGY rdrology Indicators	:		: (B11)			Seco	ondary Ind Water Ma	dicators (2 or r	more required) erine)
Depth (in marks: DROLCetland Hy mary Indi	OGY rdrology Indicators	:	ficient)				Seco	ondary Ind Water Ma Sediment	<u>dicators (2 or r</u> arks (B1) (Riv e	more required) erine)) (Riverine)
Depth (in emarks: DROLO etland Hy imary Indi Surface High W	OGY rdrology Indicators cators (any one indi Water (A1) ater Table (A2)	:	ficient) Salt Crusi	st (B12)	s (B13)		Seco	ondary Inc Water Ma Sediment Drift Depo	<u>dicators (2 or r</u> arks (B1) (Riv e : Deposits (B2	more required) erine)) (Riverine) erine)
Depth (in property of the prop	OGY rdrology Indicators cators (any one indi Water (A1) ater Table (A2)	: cator is suf	ficient) Salt Crusi Biotic Cru Aquatic Ir	st (B12)			<u>Seco</u>	ondary Ind Water Ma Sediment Drift Depo Drainage	dicators (2 or r arks (B1) (Riv e : Deposits (B2 osits (B3) (Riv	more required) erine)) (Riverine) erine)
DROLC TRANS TR	oddy	: cator is suf rine)	ficient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen	st (B12) vertebrate	dor (C1)	Living Ro	<u>Seco</u>	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas	dicators (2 or r arks (B1) (Rive : Deposits (B2 osits (B3) (Riv Patterns (B10	more required) erine)) (Riverine) erine) erine)
Depth (in permarks: DROLC etland Hy imary India Surface High Water Market Mark	oches): ordrology Indicators cators (any one indi Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive	: cator is suf rine) onriverine)	ficient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized	st (B12) vertebrate Sulfide Od	dor (C1) res along		Seco	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc	dicators (2 or r arks (B1) (Riv e : Deposits (B2 osits (B3) (Riv Patterns (B10 on Water Tab	more required) erine)) (Riverine) erine) erine)
Depth (in permarks: DROLO etland Hy imary Indi Surface High W: Saturati Water M Sedime Drift De	oches): ordrology Indicators cators (any one indi Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive	: cator is suf rine) onriverine)	ficient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	st (B12) vertebrate Sulfide Od Rhizosphe	dor (C1) res along d Iron (C4)	Second Se	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I	dicators (2 or r arks (B1) (Riv e : Deposits (B2 osits (B3) (Riv Patterns (B10 on Water Tab k Surface (C7 Burrows (C8)	more required) erine)) (Riverine) erine))) le (C2)
DROLO etland Hy imary Indi Surface High Wi Saturati Water M Sedime Drift De Surface	ordes): ordrology Indicators cators (any one indi Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No	: cator is suf rine) onriverine)	ficient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro	st (B12) evertebrate Sulfide Od Rhizosphe of Reduce	dor (C1) res along led Iron (C4 on in Plow)	Secondary Second	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation	dicators (2 or r arks (B1) (Riv e : Deposits (B2 osits (B3) (Riv Patterns (B10 on Water Tab k Surface (C7 Burrows (C8)	more required) erine)) (Riverine) erine))) le (C2)
DROLO etland Hy imary Indi Surface High Wi Saturati Water M Sedime Drift De Surface	ordes):	: cator is suf rine) onriverine)	ficient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro	st (B12) Evertebrate Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along led Iron (C4 on in Plow)	Section ————————————————————————————————————	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or r arks (B1) (Riv e : Deposits (B2 osits (B3) (Riv Patterns (B10 on Water Tab k Surface (C7 Burrows (C8) n Visible on Ar	more required) erine)) (Riverine) erine) le (C2)
DROLO TRANS TRANS DROLO TRANS TR	ordes):	: cator is suf rine) onriverine)	ficient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro	st (B12) Evertebrate Sulfide Od Rhizosphe of Reduce on Reduction	dor (C1) res along led Iron (C4 on in Plow)	Section ————————————————————————————————————	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) osits (B3) (Riv) Patterns (B10) on Water Tabk Surface (C7) Burrows (C8) in Visible on Adquitard (D3)	more required) erine)) (Riverine) erine) le (C2)
DROLC Tall the state of the st	ordes):	: cator is suf rine) priverine) erine)	ficient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro	st (B12) Evertebrate Sulfide Or Rhizosphe of Reduce on Reduction	dor (C1) res along led Iron (C4 on in Plow marks))	Section ————————————————————————————————————	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) osits (B3) (Riv) Patterns (B10) on Water Tabk Surface (C7) Burrows (C8) in Visible on Adquitard (D3)	more required) erine)) (Riverine) erine) le (C2)
Depth (in permarks: DROLC etland Hy imary India Water Marks Sedime Drift De Surface Inundat Water-Seld Observariace Water-Sel	ordes): ordes): ordes ordes	: cator is suf rine) onriverine) erine) Imagery (E	ficient) Salt Crust Biotic Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ir 37) Other (Ex	st (B12) Evertebrate Sulfide Oc Rhizosphe of Reduce on Reducti plain in Re	dor (C1) res along d Iron (C4 on in Plow marks))	Section ————————————————————————————————————	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) osits (B3) (Riv) Patterns (B10) on Water Tabk Surface (C7) Burrows (C8) in Visible on Adquitard (D3)	more required) erine)) (Riverine) erine))) le (C2)
Depth (in permarks: DROLO etland Hy imary India Grant Mater Mater Mater Mater Mater Mater Mater Mater Mater Table Mater Table	ordes): ordes): ordesolve Indicators cators (any one indi water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No iposits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	: cator is suf rine) onriverine) erine) Imagery (E	ficient) Salt Crusi Biotic Cru Aquatic Ir Oxidized Presence Recent Ir 37) Other (Ex	st (B12) evertebrate Sulfide Oc Rhizosphe of Reduce on Reduction plain in Re ecception	dor (C1) res along d Iron (C4 on in Plow marks)	ed Soils (Secondary Second	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) cosits (B3) (Riv) Patterns (B10) on Water Table K Surface (C7) Burrows (C8) in Visible on Araquitard (D3) tral Test (D5)	more required) erine) (Riverine) erine) erine)
Depth (in permarks: DROLO etland Hy imary Indi Surface High Wi Saturati Water M Sedime Drift De Surface Inundat Water-Seld Observator Table atturation Facilides ca	ordes): ordes): ordesolve Indicators cators (any one indivent Table (A2) ion (A3) Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Cacks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	: cator is suf rine) onriverine) erine) Imagery (E Yes YesX	ficient) Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire 37) Other (Ex No Depth (ir No Depth (ir	st (B12) evertebrate Sulfide Oc Rhizosphe of Reduce on Reduction plain in Re eches): eches): 6"	dor (C1) res along d Iron (C4 on in Plow marks)	ed Soils (Second Se	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) cosits (B3) (Riv) Patterns (B10) on Water Table K Surface (C7) Burrows (C8) in Visible on Araquitard (D3) tral Test (D5)	more required) erine) (Riverine) erine) () le (C2)) erial Imagery (C9)
Depth (in permarks: DROLO etland Hy imary Indi Surface High Wi Saturati Water M Sedime Drift De Surface Inundat Water-Seld Observator Table atturation Facilides ca	ordes): ordes): ordesolve Indicators cators (any one indivent Table (A2) ion (A3) Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Cacks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	: cator is suf rine) onriverine) erine) Imagery (E Yes YesX	ficient) Salt Crusi Biotic Cru Aquatic Ir Oxidized Presence Recent Ir 37) Other (Ex	st (B12) evertebrate Sulfide Oc Rhizosphe of Reduce on Reduction plain in Re eches): eches): 6"	dor (C1) res along d Iron (C4 on in Plow marks)	ed Soils (Second Se	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) cosits (B3) (Riv) Patterns (B10) on Water Table K Surface (C7) Burrows (C8) in Visible on Araquitard (D3) tral Test (D5)	more required) erine) (Riverine) erine) () le (C2)) erial Imagery (C9)
Depth (in permarks: DROLO etland Hy imary Indi Surface High W: Saturati Water M Sedime Drift De Surface Inundat Water-Seld Observator Table atturation Foludes ca	ordes): ordes): ordesolve Indicators cators (any one indivent Table (A2) ion (A3) Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Deposits (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	: cator is suf rine) onriverine) erine) Imagery (E Yes YesX	ficient) Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire 37) Other (Ex No Depth (ir No Depth (ir	st (B12) evertebrate Sulfide Oc Rhizosphe of Reduce on Reduction plain in Re eches): eches): 6"	dor (C1) res along d Iron (C4 on in Plow marks)	ed Soils (Second Se	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) cosits (B3) (Riv) Patterns (B10) on Water Table K Surface (C7) Burrows (C8) in Visible on Araquitard (D3) tral Test (D5)	more required) erine) (Riverine) erine) () le (C2)) erial Imagery (C9)
Depth (in permarks: DROLO etland Hy imary Indi Surface High Wi Saturati Water M Sedime Drift De Surface Inundat Water-Seld Observator Table atturation Facilides ca	ordes): ordes): ordesolve Indicators cators (any one indivent Table (A2) ion (A3) Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Deposits (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	: cator is suf rine) onriverine) erine) Imagery (E Yes YesX	ficient) Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire 37) Other (Ex No Depth (ir No Depth (ir	st (B12) evertebrate Sulfide Oc Rhizosphe of Reduce on Reduction plain in Re eches): eches): 6"	dor (C1) res along d Iron (C4 on in Plow marks)	ed Soils (Second Se	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) cosits (B3) (Riv) Patterns (B10) on Water Table K Surface (C7) Burrows (C8) in Visible on Araquitard (D3) tral Test (D5)	more required) erine) (Riverine) erine) () le (C2)) erial Imagery (C9)
Depth (in marks: DROLC etland Hy imary Indi Surface High Water Marks: Water Marks: Water Marks: Water Marks: Water Marks: Water Marks: Water Seld Observation Face Water Table atter Table service Reservation Facer Fa	ordes): ordes): ordesolve Indicators cators (any one indivent Table (A2) ion (A3) Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Deposits (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	: cator is suf rine) onriverine) erine) Imagery (E Yes YesX	ficient) Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire 37) Other (Ex No Depth (ir No Depth (ir	st (B12) evertebrate Sulfide Oc Rhizosphe of Reduce on Reduction plain in Re eches): eches): 6"	dor (C1) res along d Iron (C4 on in Plow marks)	ed Soils (Second Se	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) cosits (B3) (Riv) Patterns (B10) on Water Table K Surface (C7) Burrows (C8) in Visible on Araquitard (D3) tral Test (D5)	more required) erine) (Riverine) erine) () le (C2)) erial Imagery (C9)
DROLC etland Hy mary Indi Surface High Wi Saturati Water M Sedime Drift De Surface Inundat Water-Seld Observater Table atter Table turation Fedudes ca	ordes): ordes): ordesolve Indicators cators (any one indivent Table (A2) ion (A3) Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Deposits (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	: cator is suf rine) onriverine) erine) Imagery (E Yes YesX	ficient) Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire 37) Other (Ex No Depth (ir No Depth (ir	st (B12) evertebrate Sulfide Oc Rhizosphe of Reduce on Reduction plain in Re eches): eches): 6"	dor (C1) res along d Iron (C4 on in Plow marks)	ed Soils (Second Se	ondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A	dicators (2 or ranks (B1) (Rive): Deposits (B2) cosits (B3) (Riv) Patterns (B10) on Water Table & Surface (C7) Burrows (C8) in Visible on Araquitard (D3) tral Test (D5)	more required) erine) (Riverine) erine) () le (C2)) erial Imagery (C9)

WEILAND DEIER	IVIIIVA I IN		A FORIVI	- Alla West Regio	"
Project/Site: SDG&E Encina Hub		City/County	: Carlsb	ad, San Diego	_ Sampling Date:
Applicant/Owner: SDG&E				State: CA	Sampling Point: 2
Investigator(s): J.Fontaine, D.Busby					
Landform (hillslope, terrace, etc.): Floodplain					
Subregion (LRR): Soil Map Unit Name: Salinas clay loam,	two	to ni	ne pe	rcent slopes	(SbC)
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology signature.	_				
Are Vegetation, Soil, or Hydrology na					
SUMMARY OF FINDINGS – Attach site map s					
CONNECT OF THE INCO - Attach site map s	ilowing	Jampini	ig point i	ocations, transect	3, important reatures, etc
Hydrophytic Vegetation Present? Yes X No		ls th	ne Sampled	d Area	
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No		with	nin a Wetla	nd? Yes	No X
Remarks:					
USACE Waters of the U.S.					
VEGETATION					
	Absolute % Cover			Dominance Test wor	
1				Number of Dominant S That Are OBL, FACW	
3.				Total Number of Domi Species Across All Str	
4				Percent of Dominant S	Species 100
Total Cover: Sapling/Shrub Stratum				That Are OBL, FACW	, or FAC: 100 (A/B
1. Baccharis salicifolia	_50	Y	FAC_	Prevalence Index wo	orksheet:
2				Total % Cover of:	: Multiply by:
3					x 1 =
4					x 2 =
5	50		·		x 3 =
Total Cover:					x 4 =
1					x 5 = (A) (B)
2.				Column Totals.	(^) (b)
3				Prevalence Inde	ex = B/A =
4				Hydrophytic Vegetat	
5				_x_ Dominance Test i	
6				Prevalence Index	aptations¹ (Provide supporting
7				data in Remark	ks or on a separate sheet)
8Total Cover:				Problematic Hydr	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum					
1				¹ Indicators of hydric so be present.	oil and wetland hydrology must
2				'	
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust		Present? Y	'esX
Remarks:				1	

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the i	indicator	or confirm	n the absence of indicators.)
Depth	Matrix		Redo	x Feature			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-15	5Y 6/3	98	2.5 Y 4/3	2	C	PL	Loamy sand
						-	
		 					
	-						
1				2		·	
						re Lining, R	RC=Root Channel, M=Matrix.
	Indicators: (Appli	cadie to all L	•		ea.)		Indicators for Problematic Hydric Soils ³ :
Histosol	' '		Sandy Red				1 cm Muck (A9) (LRR C)
	pipedon (A2)		Stripped M				2 cm Muck (A10) (LRR B)
Black Hi	, ,		Loamy Mu				Reduced Vertic (F18)
	n Sulfide (A4)		Loamy Gle		(F2)		Red Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M	latrix (F3)			Other (Explain in Remarks)
	ck (A9) (LRR D)		Redox Dar				
	d Below Dark Surfa	ce (A11)	Depleted D		` '		
	ark Surface (A12)		Redox Dep	,	F8)		
	lucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hydrophytic vegetation and
	Bleyed Matrix (S4)						wetland hydrology must be present.
Restrictive I	_ayer (if present):						
Type:							
Depth (inc	ches):						Hydric Soil Present? Yes No X
Remarks:							
HYDROLO	GY						
	drology Indicators						Secondary Indicators (2 or more required)
•							
	ators (any one indi	cator is suffic	eient)				Water Marks (B1) (Riverine)
Surface	Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) (Riverine)
High Wa	ter Table (A2)		Biotic Cru	st (B12)			Drift Deposits (B3) (Riverine)
Saturation	on (A3)		Aquatic In	vertebrate	s (B13)		Drainage Patterns (B10)
Water M	arks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		Dry-Season Water Table (C2)
Sedimer	nt Deposits (B2) (N o	onriverine)	Oxidized	Rhizosphe	res along	Living Roc	ots (C3) Thin Muck Surface (C7)
	osits (B3) (Nonriv		Presence	of Reduce	ed Iron (C	4)	Crayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Ire		,	,	
_	on Visible on Aerial	Imagen/(R7				wed dolla (Shallow Aquitard (D3)
			Offici (Ex	piaiii iii ix	iliaiks)		X FAC-Neutral Test (D5)
	tained Leaves (B9)						FAC-Neutral Test (D5)
Field Obser							
Surface Wate	er Present?	Yes N	lo X Depth (ir	iches):		_	
Water Table	Present?	Yes N	lo X Depth (ir	iches):		_	
Saturation P	resent?	Yes N	lo X Depth (ir	iches):		Wetl	and Hydrology Present? Yes No _X
(includes cap	oillary fringe)						
Describe Re	corded Data (strear	n gauge, moi	nitoring well, aerial	photos, pr	evious in	spections),	if available:
Remarks:							

WETLAND DETERMINATI	ION DATA	FORIM –	Arid West Region	1	
Project/Site: SDG&E Encina Hub	City/County:	Carlsba	d, San Diego	Sampling Date: 1/28	/15
Applicant/Owner: SDG&E					
Investigator(s):J.Fontaine, D.Busby	Section, Tow	nship, Ran	ge:		
Landform (hillslope, terrace, etc.): Floodplain	_ Local relief (concave, c	onvex, none):	Slope (%):	
Subregion (LRR):			Long:	Datum:	
Soil Map Unit Name: Salinas clay loam, two	to nin	ne per	cent slopes	(SbC)	
Are climatic / hydrologic conditions on the site typical for this time of year	ear? Yesx	<u> </u>	(If no, explain in F	Remarks.)	
Are Vegetation, Soil, or Hydrology significantly	/ disturbed?	Are "N	ا «Jormal Circumstances	present? Yes X No	o
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic?	(If nee	eded, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	յ sampling	j point lo	cations, transects	s, important feature	s, etc.
Hydrophytic Vegetation Present? Yes _X	is tile	Sampled A		No _X	
	Dominant I	I	Dominance Test work	ksheet:	
1			Number of Dominant S That Are OBL, FACW,		(A)
2			Total Number of Domir Species Across All Stra	1	(B)
Total Cover:			Percent of Dominant S That Are OBL, FACW,	pecies or FAC: <u>100</u>	(A/B)
Sapling/Shrub Stratum 1. Baccharis pilularis 50	Y I	FAC	Prevalence Index wor	rksheet:	
2.			Total % Cover of:	Multiply by:	_
3			OBL species	x 1 =	_
4			FACW species	x 2 =	_
5				x 3 =	_
Total Cover:	_		FACU species		_
1. Distichlis spicata 10	N	FACW		x 5 =	
2			Column Totals:	(A)	_ (B)
3.		I	Prevalence Index	c = B/A =	_
4			Hydrophytic Vegetati	on Indicators:	
5			_x Dominance Test is		
6			Prevalence Index i		
7			Morphological Ada data in Remark	aptations¹ (Provide support (s or on a separate sheet)	ting
8			Problematic Hydro	pphytic Vegetation¹ (Explai	in)
Woody Vine Stratum	_				
1			¹ Indicators of hydric so be present.	il and wetland hydrology n	nust
Total Cover:	_		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Cover of Biotic C	Orust		Present? Ye	es <u>X</u> No	
Remarks:					

Sampling Point: Non-Wetland Pt 1

Depth	Matrix			ox Feature				
(inches)	Color (moist)	%	Color (moist)	_ <u> </u>	_Type ¹	Loc ²	<u>Texture</u> <u>Remarks</u>	
)-15	5Y 6/3	_98_	2.5 Y 4/3	2	_C	PL	Loamy sand	
				_				
				_				
				_				
Type: C=C	Concentration D-Den	letion PM-	-Peduced Matrix	2l ocation	. DI -Do	e Linina F	RC=Root Channel, M=Matrix.	
	Indicators: (Applic					e Lilling, i	Indicators for Problematic Hydric Soil	s³:
Histoso			Sandy Rec		,		1 cm Muck (A9) (LRR C)	
	pipedon (A2)		Stripped M				2 cm Muck (A10) (LRR B)	
Black H			Loamy Mu	cky Minera	l (F1)		Reduced Vertic (F18)	
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)	
Stratifie	d Layers (A5) (LRR (C)	Depleted N	/latrix (F3)			Other (Explain in Remarks)	
	uck (A9) (LRR D)		Redox Dar		` '			
	d Below Dark Surfac	e (A11)	Depleted D		` '			
_	ark Surface (A12)		Redox Dep		F8)		31	
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	NS (F9)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present.	1
	Layer (if present):						wetiand frydrology mast be present.	
1030100140	Edyci (ii present).							
Tyroc:								
							Undrie Ceil Decemb Von N	_ v
Depth (in	nches):						Hydric Soil Present? Yes N	o <u>X</u>
Depth (ir	nches):						Hydric Soil Present? Yes N	o <u>X</u>
Depth (ir Remarks:	oches):							
Depth (in Remarks: YDROLO Vetland Hy	oches): DGY rdrology Indicators:						Secondary Indicators (2 or more rec	
Depth (in Remarks: YDROLC Vetland Hy Primary Indi	OGY rdrology Indicators:		cient)				Secondary Indicators (2 or more red Water Marks (B1) (Riverine)	quired)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi	OGY drology Indicators: cators (any one indic		cient) Salt Crusi	` ′			Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (River	quired)
Depth (in Pepth	OGY rdrology Indicators: cators (any one indicators) Water (A1) ater Table (A2)		cient) Salt Crusi Biotic Cru	ıst (B12)	(D40)		Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)	quired)
Depth (in Pepth	oddy rdrology Indicators: cators (any one indicators) Water (A1) ater Table (A2) ion (A3)	ator is suffi	cient) Salt Crusi Biotic Cru Aquatic Ir	ist (B12) ivertebrate			Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)	quired)
Depth (in Permarks: YDROLC Yetland Hy Primary Indi Surface High W Saturati Water M	oches): oddy rdrology Indicators: cators (any one indicestors) Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver	ator is suffici	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen	ist (B12) nvertebrate i Sulfide O	dor (C1)	Livin a D	Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)	quired)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High W Saturati Water M Sedime	oches): oddy rdrology Indicators: cators (any one indicest Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriverent Deposits (B2) (No	ator is sufficience)	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized	ist (B12) nvertebrate i Sulfide Oo Rhizosphe	dor (C1) res along		Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7)	quired)
Depth (in Remarks: YDROLO Vetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De	oches): odrology Indicators: cators (any one indice water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (No	ator is sufficience)	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	ist (B12) nvertebrate i Sulfide Oi Rhizosphe of Reduce	dor (C1) res along ed Iron (C	4)	Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)	<u>quired)</u>
Depth (in Remarks: YDROLO YDROLO Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface	ordes): ordeside de la composite de la composite (A1) ordeside (A2) ordeside (A3) Marks (B1) (Nonriver ont Deposits (B2) (No oposits (B3) (Nonriver es Soil Cracks (B6)	ator is suffi ine) nriverine) rine)	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ust (B12) nvertebrate Sulfide Oo Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (C on in Ploy	4)	Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Image	quired) ine)
Depth (in Remarks: YDROLO Yetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat	oddy rdrology Indicators: cators (any one indicators) water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (No iposits (B3) (Nonriver is Soil Cracks (B6) ion Visible on Aerial	ator is suffi ine) nriverine) rine)	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ust (B12) nvertebrate Sulfide Oo Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (C on in Ploy	4)	Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Images	quired) ine)
Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S	ody odrology Indicators: cators (any one indicators (any one indicators) water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver) ont Deposits (B2) (Nonriver) ont Deposits (B3) (Nonriver) ont Oderocks (B6) ion Visible on Aerial I Stained Leaves (B9)	ator is suffi ine) nriverine) rine)	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ust (B12) nvertebrate Sulfide Oo Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (C on in Ploy	4)	Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Image	quired) ine)
Depth (in Remarks: YDROLC Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S Field Observers	ody rdrology Indicators: cators (any one indicators) Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver) int Deposits (B2) (Nonriver) Soil Cracks (B6) ion Visible on Aerial Installed Leaves (B9) rvations:	ator is suffici ine) nriverine) rine) magery (B7	cient) Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	nst (B12) nvertebrate n Sulfide On Rhizosphe of Reduce on Reducti plain in Re	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Images	quired)
Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obsel	oddy rdrology Indicators: cators (any one indicators) Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver) int Deposits (B2) (Nonriver) Soil Cracks (B6) ion Visible on Aerial Instalned Leaves (B9) rvations: ter Present?	ator is sufficine) nriverine) rine) magery (B7	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	nst (B12) nvertebrate i Sulfide Or Rhizosphe of Reduce on Reducti plain in Re	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Images	quired)
Depth (in Remarks: YDROLO YDROLO Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table	ordes): ordesolution of the properties of the p	ator is sufficine) nriverine) rine) magery (B7	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir (') Other (Ex	ast (B12) avertebrate a Sulfide Or Rhizosphe of Reduce on Reducti aplain in Re	dor (C1) res along ed Iron (C on in Plov emarks)	4) wed Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Images Shallow Aquitard (D3) X FAC-Neutral Test (D5)	quired) ine) agery (C9
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obset Surface Water Table Saturation F	ordes): ordesolution ordesol	ator is sufficine) nriverine) rine) magery (B7	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ast (B12) avertebrate a Sulfide Or Rhizosphe of Reduce on Reducti aplain in Re	dor (C1) res along ed Iron (C on in Plov emarks)	4) wed Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Images Shallow Aquitard (D3) X FAC-Neutral Test (D5)	quired)
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	ordes): ordeside description of the state o	ator is sufficience) magery (B7 es 1 es 1	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro Other (Ex	nst (B12) nvertebrate n Sulfide On Rhizosphe of Reduce on Reducti plain in Re nches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Ima Shallow Aquitard (D3) X FAC-Neutral Test (D5)	quired) ine) agery (C9
Depth (in Remarks: YDROLO Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	ordes): ordesolution ordesol	ator is sufficience) magery (B7 es 1 es 1	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro Other (Ex	nst (B12) nvertebrate n Sulfide On Rhizosphe of Reduce on Reducti plain in Re nches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Ima Shallow Aquitard (D3) X FAC-Neutral Test (D5)	quired) ine) agery (C9
Depth (in Remarks: YDROLC Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obset Surface Wa Water Table Saturation F includes ca Describe Re	ordes): ordeside description of the state o	ator is sufficience) magery (B7 es 1 es 1	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro Other (Ex	nst (B12) nvertebrate n Sulfide On Rhizosphe of Reduce on Reducti plain in Re nches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Ima Shallow Aquitard (D3) X FAC-Neutral Test (D5)	quired) ine) agery (C9
Depth (in Remarks: YDROLC Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	ordes): ordeside description of the state o	ator is sufficience) magery (B7 es 1 es 1	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro Other (Ex	nst (B12) nvertebrate n Sulfide On Rhizosphe of Reduce on Reducti plain in Re nches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Ima Shallow Aquitard (D3) X FAC-Neutral Test (D5)	quired) ine) agery (C9
Depth (in Remarks: YDROLC YDROLC Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obset Surface Wa Water Table Saturation F includes ca Describe Re	ordes): ordeside description of the state o	ator is sufficience) magery (B7 es 1 es 1	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro Other (Ex	nst (B12) nvertebrate n Sulfide On Rhizosphe of Reduce on Reducti plain in Re nches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Ima Shallow Aquitard (D3) X FAC-Neutral Test (D5)	quired) ine) agery (C9
Depth (in Remarks: YDROLC YDROLC Yetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Surface Inundat Water-S ield Obsel Surface Wa Vater Table Saturation F includes ca	ordes): ordeside description of the state o	ator is sufficience) magery (B7 es 1 es 1	cient) Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro Other (Ex	nst (B12) nvertebrate n Sulfide On Rhizosphe of Reduce on Reducti plain in Re nches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (Secondary Indicators (2 or more red Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Ima Shallow Aquitard (D3) X FAC-Neutral Test (D5)	quired) ine) agery (CS

WETLAND DETERMINATION DA	TA FORM – Arid West Region
Project/Site: SDG&E Encina Hub City/Cou	nty: Carlsbad, San Diego Date: 2/17/15
	State: <u>CA</u> Sampling Point: <u>4</u>
Investigator(s): D. Busby Section Landform (hillslope, terrace, etc.): Floodplain Local re	slief (concave convex none): Slone (%):
Subregion (LRR):Salinas clay loam, two to ni	ne percent slopes (SbC), smectitic
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil _X, or Hydrology significantly disturbed	
Are Vegetation, Soil X, or Hydrology naturally problemati	
SUMMARY OF FINDINGS – Attach site map showing samp	ling point locations, transects, important features, etc.
Hydric Soil Present? Wetland Hydrology Present? Yes No _X	s the Sampled Area vithin a Wetland? Yes NoX
Naturally high clay content soils com	
(artificial dam) results in an atypic	=
Satisfies one criteria for CCC jurisd	iction.
VEGETATION	
Absolute Domir Tree Stratum (Use scientific names.)	ant Indicator Status Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant
3	Species Across All Strata: 1 (B)
4 Total Cover:	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum 1. Baccharis salicifolia 75% Y	FAC Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
5	X 3 =
Total Cover: 75	FACU species x 4 =
Herb Stratum	UPL species x 5 =
1	(2)
2	
4	
5.	
6	Prevalence Index is ≤3.0 ¹
7	Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
8	Problematic Hydrophytic Vegetation (Explain)
Total Cover: Woody Vine Stratum	<u> </u>
1	be present.
	Hydrophytic
% Bare Ground in Herb Stratum25 % % Cover of Biotic Crust	Vegetation
Remarks:	
The artificial dam and the high clay content of this of water that allows for this community to persist.	soils has resulted in the ponding

Profile Desc	cription: (Describe t	o the dep	th neede	ed to docur	nent the ir	ndicator	or confin	m the absence of indicators.)
Depth (in shock)	<u>Matrix</u> Color (moist)		Calar		x Features %	Type ¹	Loc ²	- Taytura Damarka
(inches)			COIO	(moist)	70	туре	LOC	Texture Remarks
$\frac{0-3}{2-9}$	7.5 YR 4/1	100	<u></u>	TD 4/0	1007			loamy clay no redox
3-8	2.5 YR 4/1			R 4/8		<u>C</u>	<u>PL</u>	clay loam prominant concentrations
	2.5 Y 6/2	_30%	<u>2.5 Y</u>	ZR 4/8	30%	<u>C</u>	<u>PL</u>	sandy claydistinct concentration
8-16	10 YR 4/3	90%	7.5	YR 4/	8 <u>10%</u>	<u>C</u>	<u>M</u>	sand_
¹ Type: C=C	oncentration D=Denl	etion RM=	=Reduce	d Matrix	² Location:	PI =Po	re Linina I	RC=Root Channel, M=Matrix.
	Indicators: (Applica						·g,	Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)			Sandy Red	ox (S5)			1 cm Muck (A9) (LRR C)
	pipedon (A2)			Stripped Ma	ıtrix (S6)			2 cm Muck (A10) (LRR B)
_	istic (A3)			Loamy Muc	-			Reduced Vertic (F18)
	en Sulfide (A4) d Layers (A5) (LRR C	•\		Loamy Gley Depleted M		(F2)		Red Parent Material (TF2) Other (Explain in Remarks)
	uck (A9) (LRR D)	•)	·	Redox Dark		F6)		Other (Explain in Remarks)
	d Below Dark Surface	(A11)	·	Depleted Da		,		
_	ark Surface (A12)			Redox Depr		·8)		
	Mucky Mineral (S1)		—	Vernal Pool	s (F9)			Indicators of hydrophytic vegetation and
	Gleyed Matrix (S4) Layer (if present):							wetland hydrology must be present.
	Layer (II present).							
I	ches):							Hydric Soil Present? Yes No X
Remarks:								
Hydr	ic soil cr	iteri	a not	t met.	F3	indi	cator	requires 6" of dark surface
with	redox. S	oil p	rofi	le onl	y has	5".		
F6 c	riteria al	so no	t met	t due	to th	e la	ck of	depth of redox features.
HYDROLO	GY							
	drology Indicators:							Secondary Indicators (2 or more required)
	cators (any one indica	atoris suffi	cient)					Water Marks (B1) (Riverine)
'	Water (A1)	2101 10 00111		Salt Crust	(B11)			Sediment Deposits (B2) (Riverine)
	ater Table (A2)			Biotic Crus				Drift Deposits (B3) (Riverine)
Saturati				Aquatic Inv	` ′	s (B13)		Drainage Patterns (B10)
Water N	Marks (B1) (Nonriveri	ne)		Hydrogen				Dry-Season Water Table (C2)
Sedime	nt Deposits (B2) (Nor	nriverine)		Oxidized F	Rhizospher	es along	Living Ro	oots (C3) Thin Muck Surface (C7)
Drift De	posits (B3) (Nonriver	ine)		Presence				Crayfish Burrows (C8)
_	Soil Cracks (B6)			Recent Iro			ved Soils	· · · - ·
	ion Visible on Aerial Ir	magery (B	⁽⁾ —	Other (Exp	olain in Rer	marks)		Shallow Aquitard (D3)
Field Obser	Stained Leaves (B9)							FAC-Neutral Test (D5)
Surface Wat		ae l	No X	_ Depth (in	chec).			
Water Table				_ Depth (in			l l	
Saturation P				_ Depth (in				tland Hydrology Present? Yes No X
(includes ca	pillary fringe)							
Describe Re	corded Data (stream	gauge, mo	nitoring	well, aerial į	ohotos, pre	evious in	spections)), if available:
Remarks:	a au 1			L 1			7 '	£ the bigh slass s
		_						of the high clay content
								smectitic soil in the area
	as nonded	No	strea	am or	bed a	nd b	ank i	s present in this area.

WETLAND DETER	MINATIO	ON DATA	FORM	– Arid West Region		
Project/Site: SDG&E Encina Hub	(City/County	Carls	sbad, San Diego	npling Date: 2/	17/1
Applicant/Owner:				State: <u>CA</u> Sar		
D. Dracher						
Investigator(s): D. Busby Landform (hillslope, terrace, etc.): Hillside		Local relief	(concave,	convex, none):	Slope (%):
Subregion (LRR): Salinas clay loam,	two t	o nin	e perd	cent slopes (Sb NWI classification	C), smect	itic
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil X, or Hydrology si	gnificantly	disturbed?	Are	"Normal Circumstances" prese	ent? YesI	No X
Are Vegetation, Soil X, or Hydrology na						
SUMMARY OF FINDINGS – Attach site map s						oc ota
Solving Transings - Attach site maps	silowing	Sampiin	g ponit i	ocations, transects, in	iportant reatur	25, EIC
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Formation of hydrophytic vegetation radamming. Site does not contain high was a second contain high was a s	$\frac{x}{x}$ esults in	with	high cla	nd? Yes	l artificial	dicato
VEGETATION						
Tree Stratum (Use scientific names.) 1.	Absolute % Cover		Status	Dominance Test workshee Number of Dominant Specie That Are OBL, FACW, or FA	es 1	(A)
2 3				Total Number of Dominant Species Across All Strata:	2	_ (B)
4Total Cover: Sapling/Shrub Stratum	;			Percent of Dominant Specie That Are OBL, FACW, or FA	es AC:50%	_ (A/B)
Isocoma menziesii	75%	Y	FAC	Prevalence Index workship	eet:	
Baccharis pilularis	25%	N	FAC	Total % Cover of:	Multiply by:	
3				OBL species		
4				FACW species3	_ x 2 =	_
5						
Total Cover:	60%			FACU species		
Herb Stratum Nonnative grasses	50%	Y	UPL	UPL species Column Totals: 3	_ x 5 =	
2.				Column Totals:	_ (A)	(B)
3.				Prevalence Index = E	3/A =1	
4.				Hydrophytic Vegetation Ir	idicators:	
5				X Dominance Test is >50		
6				Prevalence Index is ≤3	.0 ¹	
7				Morphological Adaptati data in Remarks or		
8Total Cover:	- FOO			Problematic Hydrophyti	•	
Total Cover: Woody Vine Stratum	208			1 Toblematic Tryal ophryti	e vegetation (Exp.	uiii)
1				¹ Indicators of hydric soil and	d wetland hydrology	must
2.				be present.	, 3,	
Total Cover:				Hydrophytic		
% Bare Ground in Herb Stratum10%	·			Vegetation	No_X	
Remarks: Atypical situation exists c vegetation which are FAC, a in clay content allowing fo	nd mai	inly u	ıpland	in nature. So	ils are hi	.gh

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc²	
0-16 7.5 YR 4/1 100	
<u></u>	
	
1T O-O	DO-Dast Charrie M-Matrix
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8)	<u>.</u>
Sandy Mucky Mineral (S1) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	wetland hydrology must be present.
Restrictive Layer (if present):	
Type:	V
	Hydric Soil Present? Yes No X
Depth (inches): Remarks: Hydric soil criterion not met due to lack of hydric indicators.	Hydric Soil Present? Yes No _^
Hydric soil criterion not met due to lack of hydric indicators.	Hydric Soil Present? Yes No _^
Hydric soil criterion not met due to lack of hydric indicators. IYDROLOGY	
Hydric soil criterion not met due to lack of hydric indicators. IYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Hydric soil criterion not met due to lack of hydric indicators. IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Hydric soil criterion not met due to lack of hydric indicators. IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Hydric soil criterion not met due to lack of hydric indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Hydric soil criterion not met due to lack of hydric indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Hydric soil criterion not met due to lack of hydric indicators. Hydric soil criterion not met due to lack of hydric indicators. Hydrology Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	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)
Hydric soil criterion not met due to lack of hydric indicators. Hydric soil criterion not met due to lack of hydric indicators. Hydrology Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living R	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) Roots (C3) Thin Muck Surface (C7)
Hydric soil criterion not met due to lack of hydric indicators. IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Hydric soil criterion not met due to lack of hydric indicators. Hydric soil criterion not met due to lack of hydric indicators. Hydrology Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Se (C6) Saturation Visible on Aerial Imagery (C9)
Hydric soil criterion not met due to lack of hydric indicators. Hydric soil criterion not met due to lack of hydric indicators. Hydrology Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Hydric soil criterion not met due to lack of hydric indicators. Hydric soil criterion not met due to lack of hydric indicators. Hydrology Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water -Stained Leaves (B9)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Se (C6) Saturation Visible on Aerial Imagery (C9)
Hydric soil criterion not met due to lack of hydric indicators. YDROLOGY	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Hydric soil criterion not met due to lack of hydric indicators. YDROLOGY	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) s (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Hydric soil criterion not met due to lack of hydric indicators. Hydric soil criterion not met due to lack of hydric indicators. Hydrology Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches):	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Se (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Hydric soil criterion not met due to lack of hydric indicators. Image: Comparison of the property of the pr	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Hydric soil criterion not met due to lack of hydric indicators. Hydric soil criterion not met due to lack of hydric indicators. Hydrology Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Indicators: Water Table Present? Yes No X Depth (inches):	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Hydric soil criterion not met due to lack of hydric indicators. Image: Comparison of the property of the pr	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Se (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Hydric soil criterion not met due to lack of hydric indicators. Approach	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Se (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Hydric soil criterion not met due to lack of hydric indicators. Hydric soil criterion not met due to lack of hydric indicators. Hydrology Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wether Inches (Inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wether Inches (Inches): Water Table Present? Yes No X Depth (inches): Wether Inches (Inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wether Inches (Inches (Inches): Wether Inches (Inches (I	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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) etland Hydrology Present? Yes No X
Hydric soil criterion not met due to lack of hydric indicators. Hydric soil criterion not met due to lack of hydric indicators. Hydrology Metland Hydrology Indicators:	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) etland Hydrology Present? Yes No X s), if available:
Hydric soil criterion not met due to lack of hydric indicators. YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Present? Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No A Depth (inches): Saturation Present? No Saturat	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) Coots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) etland Hydrology Present? Yes No X s), if available: Of the high clay content smectitic soil in the area

WETLAND DETERMINATION I	DATA FORM – Arid West Region
Project/Site: SDG&E Encina Hub City/C	ounty: Carlsbad, San Diego Sampling Date: 1/28/15
	State: CA Sampling Point: 6
Investigator(s): J.Fontaine, D.Busby Section	
Landform (hillslope, terrace, etc.): Hillslope Loca	
Subregion (LRR): Lat:	
Soil Map Unit Name: LeE - upland soil	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing san	iping point locations, transects, important reatures, etc
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area
Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No	within a Wetland? Yes No _X
Remarks:	
VEGETATION	
Absolute Don	ninant Indicator Dominance Test worksheet:
Tree Stratum (Use scientific names.) <u>% Cover</u> <u>Special Special Specia</u>	
1	
2	Total Number of Dominant
3	
	Percent of Dominant Species
Sapling/Shrub Stratum	That Are OBL, FACW, or FAC: (A/B)
1	
2	
3	
4	
5	
Total Cover: <u>Herb Stratum</u>	UPL species x 5 =
1	
2	
3	
4	
5	
6	
7	data in Remarks or on a separate sheet)
8	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	
1	Indicators of hydric soil and wetland hydrology must
2	be present.
Total Cover:	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover of Biotic Crust _	Present? Yes No _X
Remarks:	
Channel is unvegetated.	

Profile Desc Depth	ription: (Describe t Matrix	o the depth		nent the ii x Features		or confirm	tne absence	ot indicators.)		
(inches)	Color (moist)	 _	Color (moist)	<u>x reatures</u> %	Type ¹	Loc ²	Texture	Remarks		
(. ,,,,,					
¹ Type: C=Co	oncentration, D=Depl	etion, RM=R	Reduced Matrix.	² Location	: PL=Por	e Lining, Ro	C=Root Chanr	nel, M=Matrix.		
Hydric Soil I	ndicators: (Applica	able to all Li	RRs, unless othe	rwise note	ed.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Red	ox (S5)			1 cm M	fluck (A9) (LRR C)		
Histic Ep	pipedon (A2)		Stripped Ma	trix (S6)				fuck (A10) (LRR B)		
Black Hi			Loamy Mud	ky Mineral	(F1)			ed Vertic (F18)		
	n Sulfide (A4)		Loamy Gley	ed Matrix	(F2)			arent Material (TF2)		
Stratified	l Layers (A5) (LRR C	;)	Depleted M				Other (Explain in Remarks)		
	ck (A9) (LRR D)		Redox Dark		F6)					
Depleted	d Below Dark Surface	e (A11)	Depleted D	ark Surfac	e (F7)					
Thick Da	ark Surface (A12)		Redox Dep	ressions (F	- 8)					
Sandy M	lucky Mineral (S1)		Vernal Poo	s (F9)			³ Indicators	of hydrophytic vegetation and		
Sandy G	Sleyed Matrix (S4)						wetland	hydrology must be present.		
Restrictive L	ayer (if present):									
Type:										
	ches):						Hydric Soil	Present? Yes No X		
Remarks:							,	<u></u>		
itemarks.										
No soil	s pits were dug	due to la	ack of hydrop	hytic v	egetati	on.				
				•						
HYDROLO	GY									
Wetland Hyd	drology Indicators:						Secon	dary Indicators (2 or more required)		
_	ators (any one indica	atoris suffici	ent)					/ater Marks (B1) (Riverine)		
		ttor 15 Samon		(D44)				ediment Deposits (B2) (Riverine)		
_	Water (A1)		Salt Crust	` '				. , , , , ,		
	ter Table (A2)		Biotic Cru	. ,	(5.40)		Drift Deposits (B3) (Riverine)			
Saturation			Aquatic In					rainage Patterns (B10)		
_	arks (B1) (Nonriveri	*	Hydrogen					ry-Season Water Table (C2)		
Sedimen	it Deposits (B2) (Nor	ıriverine)		-	_	_	ts (C3) Ti	nin Muck Surface (C7)		
Drift Dep	osits (B3) (Nonriver	ine)	Presence	of Reduce	d Iron (C4	1)	c	rayfish Burrows (C8)		
Surface	Soil Cracks (B6)		Recent Iro	n Reductio	on in Plow	ved Soils (C	C6) S	aturation Visible on Aerial Imagery (C9)		
Inundatio	on Visible on Aerial Ir	nagery (B7)	Other (Exp	olain in Re	marks)		s	hallow Aquitard (D3)		
Water-St	tained Leaves (B9)						F/	AC-Neutral Test (D5)		
Field Observ	vations:									
Surface Wate	er Present? Ye	es No	Depth (in	ches):						
Water Table			Depth (in			I				
								. B X N.		
Saturation Pr (includes cap		∌s No	Depth (in	ches):		_ wetia	ina Hyarology	Present? Yes X No		
	corded Data (stream	gauge, moni	itoring well, aerial	photos, pre	evious ins	pections), i	f available:			
	•	J J ,	J	7.		•				
Remarks:										
Drain	age has a defin	ed chann	el.							
	-									

WETLAND DETERMINATION DAT	A FORM – Arid West Region
Project/Site: SDG&E Encina Hub City/Coun	y: Carlsbad, San Diego Sampling Date: 1/28/15
	State: <u>CA</u> Sampling Point: 7
Investigator(s): J.Fontaine, D.Busby Section, T	
Landform (hillslope, terrace, etc.): Hillslope Local reli	
Subregion (LRR): Lat:	
Soil Map Unit Name: <u>LeE - upland soil</u>	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes _	
Are Vegetation, Soil, or Hydrology significantly disturbed	
Are Vegetation, Soil, or Hydrology naturally problematic?	· · · · · · · · · · · · · · · · · · ·
SUMMARY OF FINDINGS – Attach site map showing sampli	ng point locations, transects, important reatures, etc
Hydrophytic Vegetation Present? Yes No _X Is	he Sampled Area
Hydric Soil Present? Yes No _X with	hin a Wetland? Yes No X
Remarks:	
VEGETATION	
Absolute Dominar	t Indicator Dominance Test worksheet:
Tree Stratum (Use scientific names.) <u>% Cover Species</u>	- Number of Dominant Species
1	
2	rotal number of Dominant
3	
Total Cover:	Percent of Dominant Species
Sapling/Shrub Stratum	That Are OBL, FACW, or FAC: (A/B)
1	
2	
3	
4	
5	FACU species x 4 =
Total Cover:	UPL species x 5 =
1	
2	
3	
4	
5	
6	
7	data in Remarks or on a separate sheet)
8 Total Cover:	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	
1	Indicators of hydric soil and wetland hydrology must be present.
2	- — — ·
Total Cover:	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Present? Yes No _X
Remarks:	
Channel is unvegetated.	
I and the second se	

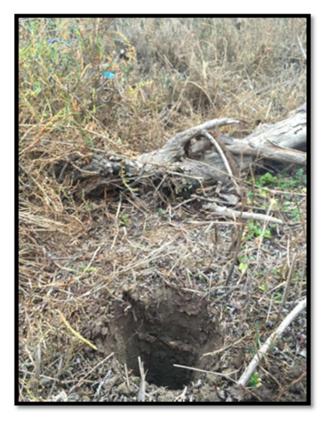
Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Textur	e Remarks
			
			
			
			
	M=Reduced Matrix. ² Location: PL=Pore		
Hydric Soil Indicators: (Applicable to a	all LRRs, unless otherwise noted.)	Indica	tors for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1	cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2	cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	R	educed Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	R	ed Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	0	ther (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)		
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	³ Indica	ators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)			tland hydrology must be present.
Restrictive Layer (if present):			
Type:			
• •			
		Lludeia	Cail Dragant? Vac No Y
Depth (inches): Remarks: No soils pits were dug due t	to lack of hydrophytic vegetation		Soil Present? Yes No X
Remarks: No soils pits were dug due t	to lack of hydrophytic vegetation		Soil Present? Yes No X
Remarks: No soils pits were dug due t	to lack of hydrophytic vegetation	on.	
Remarks: No soils pits were dug due t HYDROLOGY Wetland Hydrology Indicators:		on.	Secondary Indicators (2 or more required)
Remarks: No soils pits were dug due t IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su	ufficient)	on.	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine)
Remarks: No soils pits were dug due t HYDROLOGY Wetland Hydrology Indicators:		on.	Secondary Indicators (2 or more required)
Remarks: No soils pits were dug due t IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su	ufficient)	on.	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine)
Remarks: No soils pits were dug due t IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1)	ufficient) Salt Crust (B11)	on.	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Remarks: No soils pits were dug due t HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2)	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	on.	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Remarks: No soils pits were dug due t HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	on.	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10) Dry-Season Water Table (C2)
Remarks: No soils pits were dug due to the soils pits were dug dug to the soils pits were dug dug to the soils pits were dug	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) a) Oxidized Rhizospheres along	On. S Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)
Remarks: No soils pits were dug due to the soils pits were dug dug to the soils pits were dug dug to the soils pits were dug	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along I Presence of Reduced Iron (C4	On. S Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Remarks: No soils pits were dug due to the soils pits were dug dug dug to the soils pits were dug dug to the soils pits were	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plow	on. S Living Roots (C3) Pred Soils (C6)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
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Remarks: No soils pits were dug due to the soils pits were dug dug due to the soils pits were dug dug dug to the soils pits were dug dug to the soils pits were dug to	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plow (B7) Other (Explain in Remarks) No Depth (inches): No X Depth (inches): No X Depth (inches):	Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Remarks: No soils pits were dug due to the soils pits were dug dug due to the soils pits were dug	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plow (B7) Other (Explain in Remarks) No Depth (inches): No X Depth (inches): No X Depth (inches):	Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks: No soils pits were dug due to the soils pits were dug dug to the soils pits were dug dug to the soils pits were dug dug to the soils pits were	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plow (B7) Other (Explain in Remarks) NoX Depth (inches): NoX Depth (inches): NoX Depth (inches): NoX Depth (inches): monitoring well, aerial photos, previous inspections.	Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Primary Indicators (any one indicator is sue 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 (Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Water Table Present? Yes Saturation Present? Cincludes capillary fringe) Describe Recorded Data (stream gauge, increase)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plow (B7) Other (Explain in Remarks) NoX Depth (inches): NoX Depth (inches): NoX Depth (inches): NoX Depth (inches): monitoring well, aerial photos, previous inspections.	Living Roots (C3)	Secondary Indicators (2 or more required) X Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: SDG&E Encina Hub City/County: Carlsbad, San Diego Sampling Date: 1/28/1 Applicant/Owner: SDG&E State: CA Sampling Point: 8 Investigator(s): J.Fontaine, D.Busby Section, Township, Range: Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Slope (%):	15
Subregion (LRR):	
Soil Map Unit Name: LeE - upland soil NWI classification: no	
Are climatic / hydrologic conditions on the site typical for this time of year? Yesx No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes _X No _	
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)	
	oto
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features,	eic
Hydrophytic Vegetation Present? Yes No _X Is the Sampled Area	
Hydric Soil Present? Yes No X within a Wetland? Yes No X	
Remarks:	
VEGETATION	
Absolute Dominant Indicator Dominance Test worksheet:	
Tree Stratum (Use scientific names.) <u>% Cover Species?</u> Status Number of Dominant Species	
1 That Are OBL, FACW, or FAC: (A	A)
2 Total Number of Dominant	
·	(B)
4. Percent of Dominant Species Total Cover: That Are ORL FACW or FAC	
Sapling/Shrub Stratum That Are OBL, FACW, or FAC: (A	A/B)
1 Prevalence Index worksheet:	
2	
3 OBL species x 1 =	
4 FACW species x 2 =	
5 FAC species x 3 =	
Total Cover: FACU species x 4 = Herb Stratum UPL species x 5 =	
4	(B)
2	(0)
3 Prevalence Index = B/A =	
4 Hydrophytic Vegetation Indicators:	
5 Dominance Test is >50%	
6 Prevalence Index is ≤3.0¹	
7 Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)	ıg
8 Problematic Hydrophytic Vegetation (Explain))
Total Cover:	
1. Indicators of hydric soil and wetland hydrology mu	ıst
2 be present.	
Total Cover: Hydrophytic	
Vegetation	
Remarks:	
Channel is unvegetated.	
Chamber to an egention.	

Profile Desc Depth	ription: (Describe t Matrix	o the depth		nent the ii x Features		or confirm	tne absence	ot indicators.)		
(inches)	Color (moist)	 _	Color (moist)	<u>x reatures</u> %	Type ¹	Loc ²	Texture	Remarks		
(. ,,,,,					
¹ Type: C=Co	oncentration, D=Depl	etion, RM=R	Reduced Matrix.	² Location	: PL=Por	e Lining, Ro	C=Root Chanr	nel, M=Matrix.		
Hydric Soil I	ndicators: (Applica	able to all Li	RRs, unless othe	rwise note	ed.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Red	ox (S5)			1 cm M	fluck (A9) (LRR C)		
Histic Ep	pipedon (A2)		Stripped Ma	trix (S6)				fuck (A10) (LRR B)		
Black Hi			Loamy Mud	ky Mineral	(F1)			ed Vertic (F18)		
	n Sulfide (A4)		Loamy Gley	ed Matrix	(F2)			arent Material (TF2)		
Stratified	l Layers (A5) (LRR C	;)	Depleted M				Other (Explain in Remarks)		
	ck (A9) (LRR D)		Redox Dark		F6)					
Depleted	d Below Dark Surface	e (A11)	Depleted D	ark Surfac	e (F7)					
Thick Da	ark Surface (A12)		Redox Dep	ressions (F	- 8)					
Sandy M	lucky Mineral (S1)		Vernal Poo	s (F9)			³ Indicators	of hydrophytic vegetation and		
Sandy G	Sleyed Matrix (S4)						wetland	hydrology must be present.		
Restrictive L	ayer (if present):									
Type:										
	ches):						Hydric Soil	Present? Yes No X		
Remarks:							,	<u></u>		
itemarks.										
No soil	s pits were dug	due to la	ack of hydrop	hytic v	egetati	on.				
				•						
HYDROLO	GY									
Wetland Hyd	drology Indicators:						Secon	dary Indicators (2 or more required)		
_	ators (any one indica	atoris suffici	ent)					/ater Marks (B1) (Riverine)		
		ttor 15 Samon		(D44)				ediment Deposits (B2) (Riverine)		
_	Water (A1)		Salt Crust	` '				. , , , , ,		
	ter Table (A2)		Biotic Cru	. ,	(5.40)		Drift Deposits (B3) (Riverine)			
Saturation			Aquatic In					rainage Patterns (B10)		
_	arks (B1) (Nonriveri	*	Hydrogen					ry-Season Water Table (C2)		
Sedimen	it Deposits (B2) (Nor	ıriverine)		-	_	_	ts (C3) Ti	nin Muck Surface (C7)		
Drift Dep	osits (B3) (Nonriver	ine)	Presence	of Reduce	d Iron (C4	1)	c	rayfish Burrows (C8)		
Surface	Soil Cracks (B6)		Recent Iro	n Reductio	on in Plow	ved Soils (C	C6) S	aturation Visible on Aerial Imagery (C9)		
Inundatio	on Visible on Aerial Ir	nagery (B7)	Other (Exp	olain in Re	marks)		s	hallow Aquitard (D3)		
Water-St	tained Leaves (B9)						F/	AC-Neutral Test (D5)		
Field Observ	vations:									
Surface Wate	er Present? Ye	es No	Depth (in	ches):						
Water Table			Depth (in			I				
								. B X N.		
Saturation Pr (includes cap		∌s No	Depth (in	ches):		_ wetia	ina Hyarology	Present? Yes X No		
	corded Data (stream	gauge, moni	itoring well, aerial	photos, pre	evious ins	pections), i	f available:			
	•	J J ,	J	7.		•				
Remarks:										
Drain	age has a defin	ed chann	el.							
	-									

APPENDIX C: SITE PHOTOGRAPHS

Sample Point 1 / Photo Point 1. View of Feature 1 - USACE wetland waters of the U.S., RWQCB wetland waters of the State, CDFW Riparian, and CCC Wetland.



Sample Point 2 / Photo Point 2. View of Feature 1 - CDFW Riparian and CCC Wetland.



Sample Point 3 / Photo Point 3. View of area outside and west of Feature 1 - non-jurisdictional.



Sample Point 4 / Photo Point 4. View of Feature 2 - CCC Wetland.



Photo Point 4.1. View of edge of Feature 2 where soil disturbance along the road has formed a berm that has resulted in an atypical situation creating conditions that unnaturally support hydrophytic vegetation.



Sample Point 5 / Photo Point 5. View of area outside and west of Feature 2 - non-jurisdictional.



Sample Point 6 / Photo Point 6. View of Feature 3 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed, and CCC Wetland.



Sample Point 7 / Photo Point 7. View of Feature 4 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed, and CCC Wetland.



Sample Point 8 / Photo Point 8. View of Feature 5 -USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed, and CCC Wetland.

