8.0 Photographs



Sample Site 1: View north December 2015



Sample Site 1: View south December 2015



Sample Site 1: Substrate December 2015



Sample Site 2: View north December 2015



Sample Site 2: View south December 2015



Sample Site 2: Substrate December 2015



Sample Site 4: View south Bowl Wetland May 2014



Sample Site 4: View north December 2015



Sample Site 4: View south December 2015



Sample Site 5: View east December 2015



Sample Site 5: View west December 2015



Sample Site 5: Substrate December 2015



Sample Site 6: View east East West Drainage December 2015



Sample Site 6: View west East West Drainage December 2015



Sample Site 6: Substrate East West Drainage December 2015



Sample Site 7: View south North South Drainage December 2015



Sample Site 7: View north North South Drainage December 2015



Sample Site 7: Substrate North South Drainage December 2015



Sample Site 10: View upstream Tank Farm Creek December 2015



Sample Site 10: View downstream Tank Farm Creek December 2015



Sample Site 10: Substrate Tank Farm Creek December 2015



Sample Site 11: View upstream Tank Farm Riparian December 2015



Sample Site 11: Substrate Tank Farm Riparian December 2015



Sample Site 13: View west Bowl Wetland December 2015



Cross-Section B: View upstream December 2015



Cross-Section B: View downstream December 2015



Cross-Section B: Substrate December 2015



Cross-Section H: View upstream December 2015



Cross-Section H: View downstream December 2015



Cross-Section H: Substrate December 2015



Cross-Section I: View upstream December 2015



Cross-Section I: View downstream December 2015



Cross-Section I: Substrate December 2015



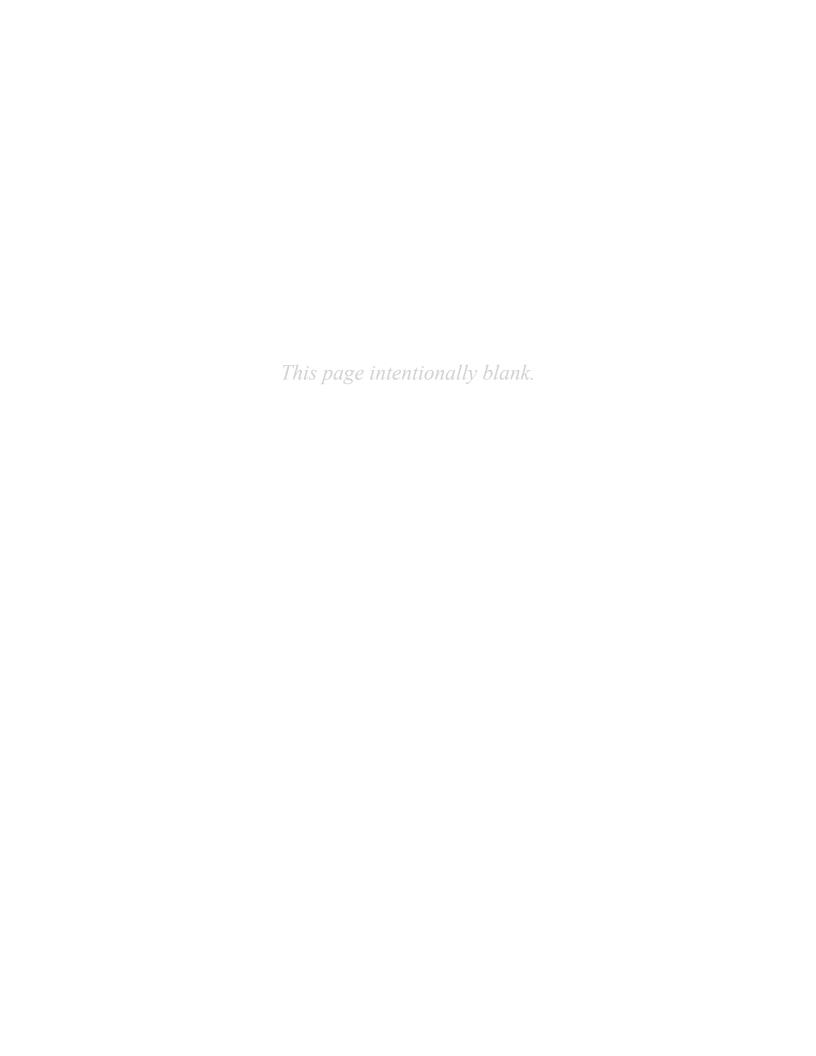
Cross-Section J: View upstream December 2015



Cross-Section J: View downstream December 2015



Cross-Section J: Substrate December 2015



Althouse	and Meade,	Inc.	-838.02
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Exhibit A – Delineation of Potentially Jurisdictional Wetlands and Waters

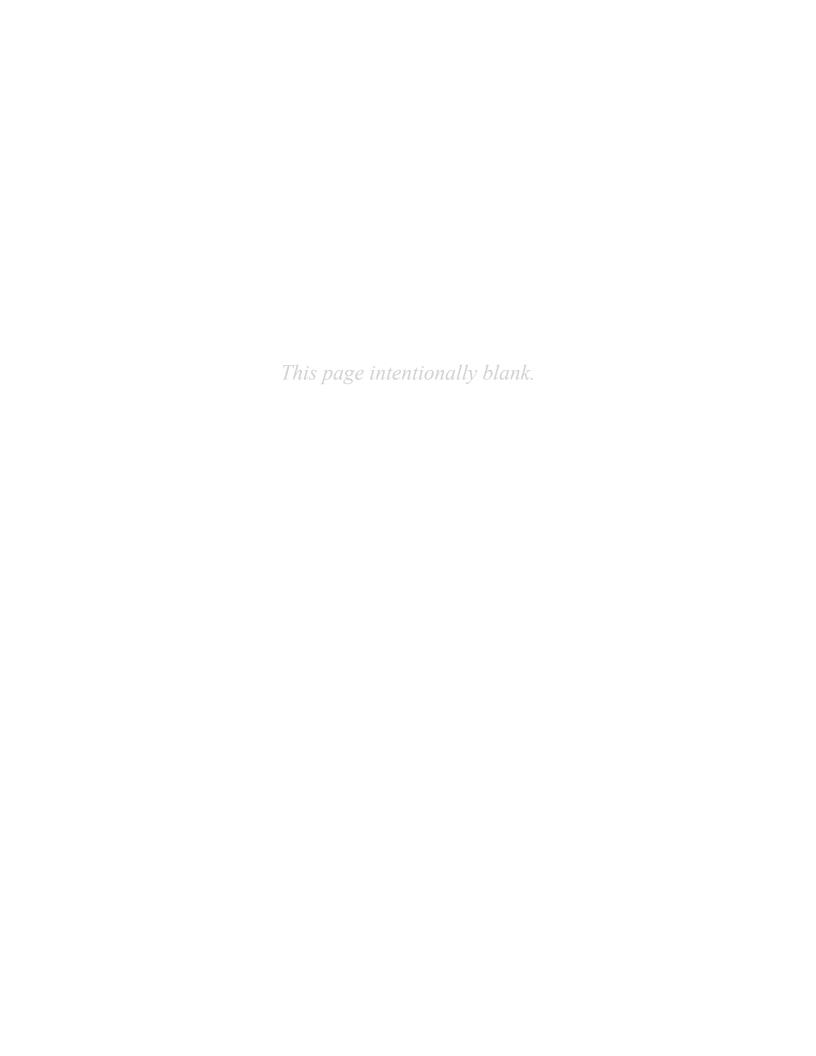
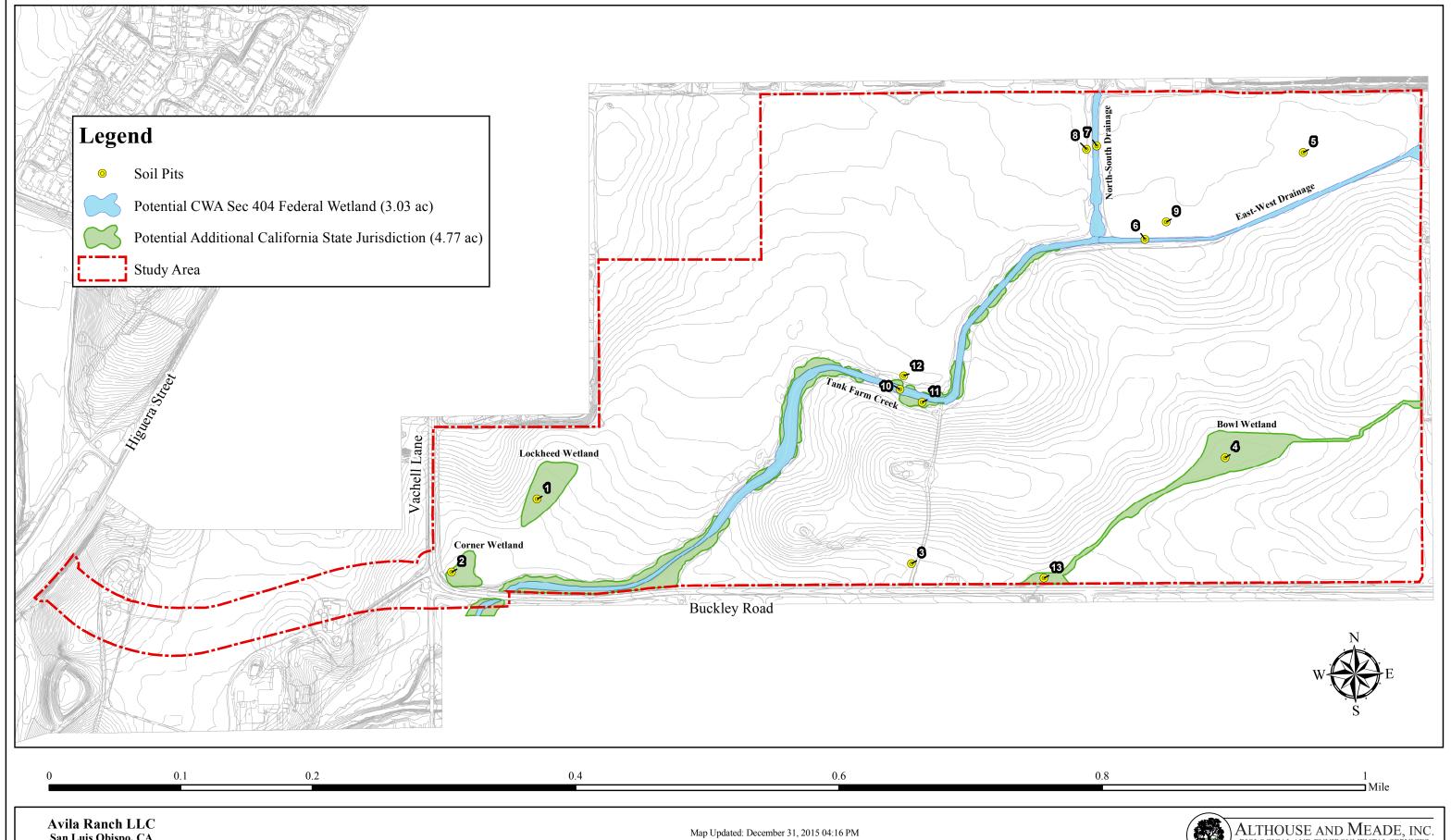
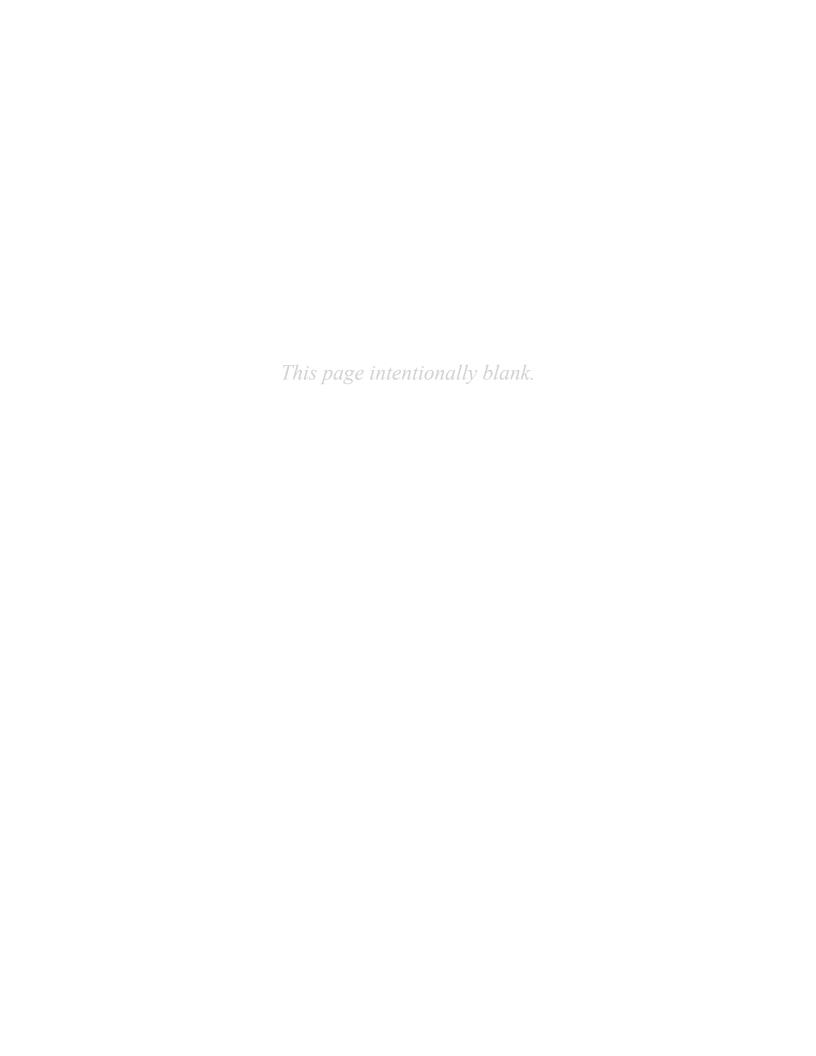


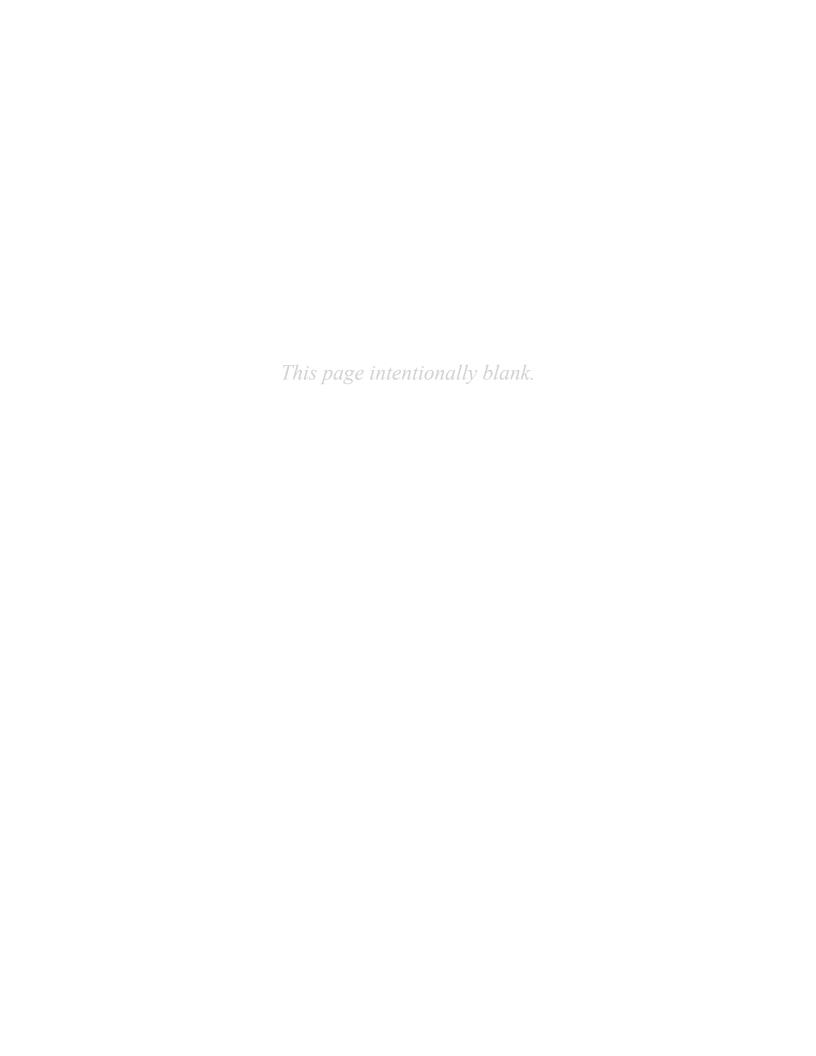
Exhibit A. Delineation of Potentially Jurisdictional Wetlands and Waters





Althouse	and Meade.	Inc	- 838	02
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Exhibit B – Wetland Determination Data Forms



WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Avila Ranch	City/	County San/	υξ <i>Οδίξρο</i> Sampling Date: <u>4-11-14</u>
Applicant/Owner: Steve Peck		Sounty = \\\ \colon	¥ /
Investigator(s): 3.7. Make t			0.5.0.0
Landform (hillslope, terrace, etc.):			
Subregion (LRR): Medife/runear CA			^
Soil Map Unit Name: Marinel Sandy clay			
Are climatic / hydrologic conditions on the site typical for this			,
Are Vegetation, Soil, or Hydrology s			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r	aturally problem	natic? (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sar	npling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N	o	Is the Sampled A	Aron
Hydric Soil Present? Yes N	0 <u>+</u>	within a Wetland	- / /
Wetland Hydrology Present? Yes N	0	Within a Wetland	103 31/11 110
Remarks:			
drought year			
VEGETATION – Use scientific names of plan	ts.		
		minant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Sp	ecies? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC:/ (A)
2			Total Number of Dominant
3.			Species Across All Strata: (B)
4			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	=	otal Cover	That Are OBL, FACW, or FAC: 100 (A/B)
1			Prevalence Index worksheet:
2.			Total % Cover of: Multiply by:
3.			OBL species x1=
4			FACW species $15 \times 2 = 30$
5		· · · · · · · · · · · · · · · · · · ·	FAC species x3=
Herb Stratum (Plot size: / m_)	= T	otal Cover	FACU species $S = X4 = 25$ UPL species $S = X5 = 0$
1. Polypogen mongo liensis	15	Y FACW	o. 2 opos.co
2. Helmis the there echicales		V FACU	Column Totals: (A) (B)
3.			Prevalence Index = B/A = 2-55
4.			Hydrophytic Vegetation Indicators:
5			
6.			Prevalence Index is ≤3.0¹ Angle of the second content of th
7.			 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	 		Problematic Hydrophytic Vegetation ¹ (Explain)
Manager Charles Charles (Distance)	<u> 10 </u> = T	otal Cover	i residinatio riyarepriyae vegetation (Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hydric soil and wetland hydrology must
1	·	-	be present, unless disturbed or problematic.
۲		otal Cover	Hydrophytic
QC		_	Vegetation /_
	r of Biotic Crust		Present? Yes <u>T</u> No
Remarks:	(~/-	10.00	0
drought conditions a. polypogen o evidence a	ra pro	weck crow	nd-1emmants of
notroccon o evidence a	Pinh.69	teel crop	granfle
po 115-35			

i tome peacify	tion: (Describe	to the dep	th needed to docu	ment the ind	icator	or confirm	the absence	of indicato	ampling Point: _	
Depth	Matrix			ox Features			:		,	
<u>(inches)</u>	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
1-10 1	042/1	100		·			5.6150	7		
10-12+1	OYRZI	70	104R5/2	30	\mathcal{L}	M	501	noc.	edex	
		-					,			***
		. ——								
									100	
Tyne: C=Conc	entration D=Den						21			
lydric Soil Indi	cators: (Application)	able to all	LRRs, unless other	s=Covered or rwise noted.)	Coated	Sand Gra		for Problem	Pore Lining, M= natic Hydric S	Matrix.
Histosol (A1			Sandy Red	-	,			luck (A9) (L		0115 .
Histic Epipe	•		Stripped Ma	• •				/luck (A9) (L /luck (A10) (
Black Histic			Loamy Muc		1)			ed Vertic (F	•	
Hydrogen St	ulfide (A4)		Loamy Gley		•			arent Materi	•	
Stratified Lay	yers (A5) (LRR C	;)	Depleted M					Explain in F		
1 cm Muck (Redox Dark	Surface (F6))			· •	,	
	low Dark Surface) (A11)	Depleted Da	ark Surface (F	⁻ 7)					
Thick Dark S	3urface (A12)		Redox Depi	essions (F8)			³ Indicators	of hydrophy	tic vegetation a	nđ
Sandy Muck			Vernal Pool	s (F9)			wetland	hydrology m	ust be present,	
Sandy Gleye							unless di	sturbed or p	oroblematic.	
-										
Туре:	one									,
Type: <	one						Hydric Soil	Present?	Yes	No <u>+</u>
Type: e	one i):				/					
Type: e	one i):	y rece Pack	ent farm	ing exc	f:v:4	ies, a				
Type: < e Depth (inches) emarks:	one i):	y rece Featu	ent farm	ng ex	fivit	les, a				
Type:	one): mixing b at soil;	y rece Featw	ent farmings	ng ex	fivit	les, a				
Type:	one iii iii iii iii ii ii ii ii ii ii ii i				fivit	ies, a				
Type:	one iii iii iii iii ii ii ii ii ii ii ii i		ent farmines of the second		f:v:4	lies, a	puplic	rted edo		2480
Type:	one mixing b at 50111 ogy Indicators: s (minimum of one) er (A1)			·)	fivir	lies, a	emplic bserve	S. F. C. C. V.	evalue	2 + 2cc
Depth (inches) emarks: Series Proceedings DROLOGY etland Hydrologimary Indicators	one mixing b at 50111 ogy Indicators: s (minimum of one) er (A1)		check all that apply	v) (B11)	f:v:4	les, a	bserve Secon w	S. L. C.	e value ors (2 or more r (B1) (Riverine)	equired)
Depth (inches) emarks: Solvingh DROLOGY etland Hydrologimary Indicators Surface Water High Water T Saturation (A)	ogy Indicators: s (minimum of one) er (A1) Table (A2)	ne required;	check all that apply Salt Crust (v) (B11)		les, a	Secon Secon Secon Secon	dary Indicate	e valva ors (2 or more r (B1) (Riverine) posits (B2) (Rive	equired)
Depth (inches) emarks: Solvingh DROLOGY etland Hydrologimary Indicators Surface Water High Water T Saturation (A)	ogy Indicators: s (minimum of one er (A1) Table (A2)	ne required;	check all that apply Salt Crust (Biotic Crus Aquatic Inv	r) (B11) t (B12)	13)	les, a	Secon Secon Secon Secon Secon Secon	dary Indicate ater Marks (ediment Deposits	e vac (v c ors (2 or more r (B1) (Riverine) oosits (B2) (Rive (B3) (Riverine)	equired)
Depth (inches) emarks: Sollingh DROLOGY etland Hydrolo imary Indicators Surface Wate High Water T Saturation (A) Water Marks	ogy Indicators: s (minimum of one) er (A1) Table (A2)	ne required;	check all that apply Salt Crust (Biotic Crus Aquatic Inv	r) (B11) t (B12) ertebrates (B	13) (C1)	,	Secon Secon W Se Dr Dr	dary Indicate ater Marks (ediment Deposits alinage Patte	evalua evalua pors (2 or more r (B1) (Riverine) posits (B2) (Riverine) erns (B10)	equired)
Depth (inches) emarks: OFFICIENT OF THE PROPERTY OF THE PROPE	one ogy Indicators: s (minimum of one (A1) able (A2) 3) (B1) (Nonriverin	ne required; ne) riverine)	check all that apply Salt Crust (Biotic Crus Aquatic Inv Hydrogen S	r) (B11) t (B12) ertebrates (B Sulfide Odor (13) (C1) along Li	,	Secon Secon Secon Dr Dr C(C3) Dr	dary Indicate ater Marks (ediment Deposits rainage Pattry-Season W	ors (2 or more r (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) /ater Table (C2)	equired)
Type:	one i): ogy Indicators: s (minimum of one (A1) Table (A2) 3) (B1) (Nonriverin posits (B2) (Nonriverin (B3)	ne required; ne) riverine)	check all that apply Salt Crust (Biotic Crus (Aquatic Inv Hydrogen S Oxidized R	r) (B11) t (B12) rertebrates (B Sulfide Odor (hizospheres a	13) (C1) along Li on (C4)	ving Roots	Secon Secon Dr Dr Cr C(C3)	dary Indicate ater Marks (ediment Dep iff Deposits ainage Patte y-Season W ayfish Burro	evalua evalua (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) //ater Table (C2) pws (C8)	equired)
Depth (inches) emarks: DROLOGY etland Hydrolo imary Indicators Surface Water High Water T Saturation (A) Water Marks Sediment Dep Drift Deposits Surface Soil (one i): ogy Indicators: s (minimum of one (A1) Table (A2) 3) (B1) (Nonriverin posits (B2) (Nonriverin (B3)	ne required; ne) riverine) ne)	check all that apply Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c	(B11) t (B12) rertebrates (B Sulfide Odor (hizospheres a	13) (C1) along Li on (C4)	ving Roots	Secon Secon Secon Secon Con Con Con Con Con Con Con	dary Indicate dary Indicate Marks (ediment Deposits ainage Pattery-Season Wayfish Burronturation Visitualian (in the contraction (in the contracti	e value Ors (2 or more r (B1) (Riverine) osits (B2) (Riverine) erns (B10) /ater Table (C2) ows (C8) ible on Aerial In	equired)
Type:	one ogy Indicators: s (minimum of oner (A1) Table (A2) 3) (B1) (Nonriverin posits (B2) (Nonriverin Cracks (B6) sible on Aerial Im	ne required; ne) riverine) ne)	Check all that apply Salt Crust of Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Thin Muck	(B11) t (B12) rertebrates (B Sulfide Odor (hizospheres a f Reduced Iro n Reduction ir Surface (C7)	13) (C1) along Li on (C4) n Tilled	ving Roots	Secon Secon Secon Con Con Con Con Con Con Con	dary Indicate dater Marks (ediment Deposits ainage Patte y-Season Wayfish Burrouturation Visiallow Aquita	e value ors (2 or more r (B1) (Riverine) osits (B2) (Riverine) erns (B10) //ater Table (C2) ows (C8) ible on Aerial In ard (D3)	equired)
Depth (inches) emarks: Solution DROLOGY etland Hydrologimary Indicators Surface Water High Water T Saturation (A) Water Marks Sediment Deposits Surface Soil (C) Inundation Vis Water-Stained	ogy Indicators: s (minimum of oner (A1) Table (A2) (B1) (Nonrivering (B3) (Nonriveri	ne required; ne) riverine) ne)	check all that apply Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c	(B11) t (B12) rertebrates (B Sulfide Odor (hizospheres a f Reduced Iro n Reduction ir Surface (C7)	13) (C1) along Li on (C4) n Tilled	ving Roots	Secon Secon Secon Con Con Con Con Con Con Con	dary Indicate dary Indicate Marks (ediment Deposits ainage Pattery-Season Wayfish Burronturation Visitualian (in the contraction (in the contracti	e value ors (2 or more r (B1) (Riverine) osits (B2) (Riverine) erns (B10) //ater Table (C2) ows (C8) ible on Aerial In ard (D3)	equired)
Type:	one b): ogy Indicators: s (minimum of one (A1) Table (A2) 3) (B1) (Nonriverin (B3) (Nonriverin (Cracks (B6)) sible on Aerial Im d Leaves (B9) ns:	ne required; ne) riverine) ne)	Check all that apply Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck	r) (B11) t (B12) ertebrates (B Sulfide Odor (hizospheres a of Reduced Iro n Reduction ir Surface (C7) lain in Remark	13) (C1) along Li on (C4) n Tilled	ving Roots	Secon Secon Secon Con Con Con Con Con Con Con	dary Indicate dater Marks (ediment Deposits ainage Patte y-Season Wayfish Burrouturation Visiallow Aquita	e value ors (2 or more r (B1) (Riverine) osits (B2) (Riverine) erns (B10) //ater Table (C2) ows (C8) ible on Aerial In ard (D3)	equired)
Type:	one b): ogy Indicators: s (minimum of one (A1) Table (A2) Table (A2) Togo (B3) (Nonriverine (B3) (No	ne required; ne) riverine) ne) nagery (B7)	Check all that apply Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Other (Expl	r) (B11) t (B12) rertebrates (B Gulfide Odor (hizospheres a of Reduced Iro n Reduction ir Surface (C7) lain in Remark	13) (C1) along Li on (C4) n Tilled (ks)	ving Roots	Secon Secon Secon Con Con Con Con Con Con Con	dary Indicate dater Marks (ediment Deposits ainage Patte y-Season Wayfish Burrouturation Visiallow Aquita	e value ors (2 or more r (B1) (Riverine) osits (B2) (Riverine) erns (B10) //ater Table (C2) ows (C8) ible on Aerial In ard (D3)	equired)
Depth (inches) emarks: CDROLOGY Tetland Hydrology Tetland Hydrology	one b): ogy Indicators: s (minimum of one (A1) Table (A2) 3) (B1) (Nonriverin (B3) (N	ne required; ne) riverine) ne) nagery (B7)	Check all that apply Salt Crust (Biotic Crus (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Other (Expl	(B11) t (B12) tertebrates (B Sulfide Odor (hizospheres a of Reduced Iro n Reduction ir Surface (C7) tain in Remark	13) (C1) along Li on (C4) n Tilled : ks)	ving Roots	Secon Se	dary Indicate ater Marks (ediment Deprift Deposits ainage Pattery-Season Wayfish Burronturation Visuallow Aquita C-Neutral T	e vaclue evaclue ors (2 or more r B1) (Riverine) osits (B2) (Riverine) erns (B10) /ater Table (C2) ows (C8) ible on Aerial In ard (D3) Fest (D5)	equired) Prine)
Type:	ongy Indicators: s (minimum of one (A1) Table (A2) (B1) (Nonriverin Cracks (B6) sible on Aerial Im d Leaves (B9) ns: essent? Yesent? Yesent? Yesent? Yesent? Yesent?	ne required; ne) riverine) ne) nagery (B7)	Check all that apply Salt Crust (Biotic Crus (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Other (Expl	r) (B11) t (B12) rertebrates (B Gulfide Odor (hizospheres a of Reduced Iro n Reduction ir Surface (C7) lain in Remark	13) (C1) along Li on (C4) n Tilled : ks)	ving Roots	Secon Secon Secon Con Con Con Con Con Con Con	dary Indicate ater Marks (ediment Deprift Deposits ainage Pattery-Season Wayfish Burronturation Visuallow Aquita C-Neutral T	e vaclue evaclue ors (2 or more r B1) (Riverine) osits (B2) (Riverine) erns (B10) /ater Table (C2) ows (C8) ible on Aerial In ard (D3) Fest (D5)	equired)

WETLAND DETERMINATION DATA FORM – Arid West Region

- Aud D (- 1 . 0/2
Project/Site: Avila Ranch City/County: Sa Applicant/Owner: Steve Pec K	2 (2) Sampling Date: 7-11-14
	State: A Sampling Point: 2 (0/, 2)
Investigator(s):	
	re, convex, none): <u>// On le</u> Slope (%): <u>O</u>
Subregion (LRR): Medituranean (A Lat: 35023596	Long: <u>~/2 Q, 6 75 9 7</u> Datum: <u>\Q(45 8 7</u>
Soil Map Unit Name: Diablo/Copley (la y	NWI classification: PEMA+
Are climatic / hydrologic conditions on the site typical for this time of year? Yes N	o (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	re "Normal Circumstances" present? Yes No
	f needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling poin	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No le the Samp	
Hydric Soil Present? Yes No I	n / /
Wetland Hydrology Present? Yes No Within a We	lland? Yes 2747 No
Remarks: Olrought year	
VEGETATION . Use a significant manager of plants	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicate	
1	That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant
3	Species Across All Strata: (B)
4	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: = Total Cover	That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x1 = 0
4	_ FACW species x 2 =
5	FAC species x 3 =
Herb Stratum (Plot size: = Total Cover	FACU species 2 x 4 = 8
1. Convolvolus arvensis 1 N. UPL	UPL species <u>6</u> x 5 = <u>30</u>
2. Malvela lepresa IN FAC	Coldina Totalo.
3. Helminthothera echiocles IN FAC	
4. Safflower Crop SYUPL	Hydrophytic Vegetation Indicators:
5. Plantage aquatica lanceolota Adjulent FACI	
6. Phalaris aquatica Adiacent FA	Prevalence Index is ≤3.0¹
7	Morphological Adaptations ¹ (Provide supporting
8	data in Remarks or on a separate sheet)
	─
Woody Vine Stratum (Plot size:)	The discrete of budgle and purificular developed and and
1	 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Present? Yes No
Remarks:	
Minimal Veg, mostly softlower crop. Ev growth, hoadside veg on higher grown	idence of inhibited crop
growth, hoadside veg on higher grown	a viot hydrophytico

_	_	
c	•	16

Sampling Point: Z

Depth	Matrix			Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-13	10 1R 2/1	100					<u>SCI</u>	
13-18	10422/1	96	10YR5/2	_3_	_ <i>D</i>	\mathcal{M}	<u>SCL</u>	
			104R6/8	1	C	M		
					-			
						·	-	
	-							
						•		
								
I T			Deduced Metric 00				21.00	ation. Di -Doro Lining M-Matrix
			=Reduced Matrix, CS LRRs, unless other			ed Sand Gr		ation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
-		able to all			.eu.,			uck (A9) (LRR C)
Histosol (Histic Epi	• •		Sandy Redo					uck (A10) (LRR B)
Black His			Stripped Wal		al (F1)			ed Vertic (F18)
	n Sulfide (A4)		Loamy Gleye				_	rent Material (TF2)
	Layers (A5) (LRR C	3)	Depleted Ma		. ()			Explain in Remarks)
	ck (A9) (LRR D)	• •	Redox Dark		(F6)			,
	Below Dark Surface	e (A11)	Depleted Da					
	rk Surface (A12)		Redox Depre	essions ((F8)		³ Indicators of	of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Vernal Pools	(F9)			wetland h	nydrology must be present,
Sandy Gl	leyed Matrix (S4)						unless di	sturbed or problematic.
	ayer (if present):		•					
Туре:	nla							
Depth (inc	thes): >18 ,	inche	5				Hudria Sail	Present? Yes No
Remarks:	ew depletie	ons a	nd concert	frat	ions	and		
Remarks: foo fa	,	ons a	nd concerc	frat	ions	and		
Remarks: foo De	gY	ons a	nd concere	fraf	lons	and		
Remarks: foo foo YDROLOG Wetland Hyd	GY Irology Indicators:				lons	and	below i	12 inches
Remarks: foo foo YDROLOG Wetland Hyd Primary Indic	GY Irology Indicators: ators (minimum of o		d; check all that apply	·)	Cons	and	below i	dary Indicators (2 or more required)
Remarks: foo foo YDROLOG Wetland Hyd Primary Indicate Surface N	GY Irology Indicators: ators (minimum of or Water (A1)		d; check all that apply) (B11)	ions	and	Secon	dary Indicators (2 or more required)
YDROLOG Wetland Hyd Primary Indicate Surface N High Wal	GY Irology Indicators: ators (minimum of or Water (A1) ter Table (A2)		d; check all that apply — Salt Crust (— Biotic Crus'	') (B11) t (B12)		and	Secon Secon Se Se	dary Indicators (2 or more required) fater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
YDROLOG Wetland Hyde Surface \ — High Wal — Saturatio	GY Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3)	ne require	d; check all that apply Salt Crust (Biotic Crus'	(B11) t (B12) ertebrate	es (B13)	and	Secon Secon Secon Do	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
YDROLOG Wetland Hyd Primary Indica Surface N High Wat Saturatio Water Ma	GY irology Indicators: ators (minimum of orwater (A1) ter Table (A2) on (A3) . arks (B1) (Nonriveri	ne require	d; check all that apply Salt Crust (Biotic Crus' Aquatic Inv	P) (B11) t (B12) ertebrate Sulfide C	es (B13) dor (C1)		Secon W Se Dr	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
YDROLOG Wetland Hyd Primary Indic Surface N High Wat Saturatio Water Ma	GY Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveri t Deposits (B2) (Nor	ne require ine) nriverine)	d; check all that apply Salt Crust (Biotic Crus' Aquatic Inv Hydrogen S Oxidized R	(B11) t (B12) ertebrate Sulfide C	es (B13) odor (C1) eres along	Living Roc	Secon W Se Do Dots (C3) Do	dary Indicators (2 or more required) //ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
YDROLOG Wetland Hyd Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep	GY Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveriat Deposits (B2) (Norriveriosits (B3) (Nonriveriosits (B3) (Nonriveriosits (B3) (Nonriveriosits (B3) (Nonriveriat Deposits (B3) (Nonriveri	ne require ine) nriverine)	d; check all that apply Salt Crust (Biotic Crus' Aquatic Inv Hydrogen S Chidized R	(B11) t (B12) ertebrate Sulfide C hizosphe	es (B13) edor (C1) eres along ed Iron (C	Living Roc	Secon W Se Dr Dr Cr Cr Cr Cr Cr Cr	dary Indicators (2 or more required) vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
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YDROLOG Wetland Hyde Surface N Surface N Surface N Sedimen Drift Dep Surface S Inundation Water-St Field Observ	GY Irology Indicators: ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveriat Deposits (B2) (Nonriveriat Deposits (B6) on Visible on Aerial Intained Leaves (B9) vations:	ne require ine) nriverine) rine) magery (B	d; check all that apply Salt Crust (Biotic Crus' Aquatic Inv Hydrogen S Coxidized R Presence complete Recent Iror Thin Muck Cother (Exp	(B11) It (B12) It (B1	es (B13) dor (C1) eres along ed Iron (C ion in Tille (C7)	Living Roc	Secon W Secon Dr Dr Cr Secon S	dary Indicators (2 or more required) Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ray-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3)
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YDROLOG Wetland Hyde Primary Indication Surface N Surface N Sedimen Drift Dep Surface S Inundation Water-St Field Observ Surface Water Water Table I Saturation Pr (includes cap	GY Irology Indicators: ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivering the Deposits (B2) (Nonriverse) Soil Cracks (B6) on Visible on Aerial Intained Leaves (B9) Artions: arresent? Present? Yesent? Yesent? Yesent? Yesent?	ne require ine) nriverine) magery (B es es	d; check all that apply Salt Crust (Biotic Crus' Aquatic Inv Hydrogen S Oxidized R Presence co Recent Iror Thin Muck Other (Exp	(B11) t (B12) ertebrate Sulfide C hizosphe of Reduct Surface lain in R ches): ches):	es (B13) edor (C1) eres along ed Iron (C ion in Tille (C7) emarks) > 18 > 18 > 18 - 18	Living Roo 4) ed Soils (C6	Secon W Se Dr Dr Sts (C3) Si Si F/	dary Indicators (2 or more required) Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ray-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3)
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WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Av. la Ranch	Ci	tv/County: <u>San C</u>	Sampling Date: 4-11-14
Applicant/Owner: Steve Peck			State: A Sampling Point: 3 /6/ ₀ 3
Investigator(s): Jo Tilliquest			ange: Sec10 T315 RIZE
Landform (hillslope, terrace, etc.): Sulle	L	ocal relief (concave,	convex, none): Cencul Slope (%): 1-Z
			Long: -170.66929 Datum: 41/458
Soil Map Unit Name: Salinas Silfy cla			
Are climatic / hydrologic conditions on the site typical fo	,		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly di	sturbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
•		•	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No.		
Hydric Soil Present? Yes		Is the Sample	
Wetland Hydrology Present? Yes		within a Wetlar	nd? Yes No
Remarks: drought year, plowed fie			
VEGETATION – Use scientific names of p	lants.		•
Tree Stratum (Plot size:)		Dominant Indicator Species? Status	Dominance Test worksheet:
1.	_70 COVCI	<u> Otatus</u>	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2.			
3.			Total Number of Dominant Species Across All Strata: (B)
4			
Sapling/Shrub Stratum (Plot size: W/A)	=	Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:			Prevalence Index worksheet:
2.			Total % Cover of: Multiply by:
3.		,	OBL species
4.			FACW species x 2 = C
5.			FAC species x 3 =
2	=	Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)		1) Eleve	UPL species $40 \times 5 = 200$
1. Metacaria discoidea		N FACU	Column Totals: <u>45</u> (A) <u>22</u> (B)
3. Avera Patra	<u> </u>	Y UPL	Prevalence Index = B/A = 489
4. Hordeun Volgare	- 15 -	T 12P1	Hydrophytic Vegetation Indicators:
5.		·	Dominance Test is >50%
6			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
Lucia de la companya dela companya dela companya de la companya dela companya de la companya de	<u>45</u> =	Total Cover	
Woody Vine Stratum (Plot size: N/A)			1 Indicators of hydric soil and wallend hydraless, must
1			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		Total Cover	Hydrophytic
			Vegetation
	over of Biotic Crus	st	Present? Yes No
Remarks:		10	
plowed, consistent	crop, q	rowth	
,	10		

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3	u	H	_

Sampling Point: 3

<u></u>	SCI mining/
	OCI mining!
104R3/2_30	
,	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) ————————————————————————————————————	1 cm Muck (A9) (LRR C)
 ─ Histic Epipedon (A2) ─ Black Histic (A3) ─ Loamy Mucky Mineral (F1) 	2 cm Muck (A10) (LRR B)
Edath Histic (A5) Edathy Mucky Milneral (F1) Loamy Gleyed Matrix (F2)	Reduced Vertic (F18)Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Red Parent Material (172) Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Bedox Dark Surface (F6)	Onlor (Explain in Nemarko)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) — Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.
Restrictive Layer (if present):	
Type:	
Depth (inches): \(\sim \frac{1}{3} \inches\)	Hydric Soil Present? Yes No
Remarks:	·
YDROLOGY	
Wetland Hydrology Indicators:	
rrodula fry a blogy findicators.	
• •	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Biotic Crust (B12)	
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Primary Indicators (minimum of one required; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Primary Indicators (minimum of one required; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) H Drainage Patterns (B10)
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Primary Indicators (minimum of one required; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	 ─ Water Marks (B1) (Riverine) ─ Sediment Deposits (B2) (Riverine) ─ Drift Deposits (B3) (Riverine) ✓ Drainage Patterns (B10)
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Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Marks (B1) Thin Muck Surface (C7) Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Surface Water Present? Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4) Thin Muck Surface (C7) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Other (Explain in Remarks) Field Observations: Surface Water Present? Ves No Depth (inches): Vater Table Present? Yes No Depth (inches): Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Depth (inches): Vater Table Present? Yes No Depth (inches): Depth (inches)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Avila Ranch	City/County: ڪاڪي	<u> </u>
Applicant/Owner: Steve Peck		State: CA Sampling Point: 4 (51, 4)
Investigator(s): Jo Tilliakoit & LD Althous	(
	,	ave, convex, none): Concave Slope (%): OoS
		Long: 1/20/6/50 8 Datum: V458
	Lat. <u>500 0017755</u>	-
Soil Map Unit Name:		NWI classification:
Are climatic / hydrologic conditions on the site typical for the		· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	_naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	p showing sampling poi	nt locations, transects, important features, etc.
	No Is the Sam	nlad Araa
Hydric Soil Present? Yes	No within a W	
3 03	No	
Remarks:		
plowed field, drought year		
VEGETATION – Use scientific names of pla	inte	
	Absolute Dominant Indica	tor Dominance Test worksheet;
Tree Stratum (Plot size:)	% Cover Species? Statu	
1		That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	T-1-1-0	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size://A)	= Total Cover	That Are OBL, FACW, or FAC:(A/B)
1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species x1 =
4		FACW species x 2 =
5	-	FAC species x3 =
Herb Stratum (Plot size:)	= Total Cover	FACU species x 4 =
1. Malvella leprosa		UPL species x5 =
2. Convolvolus arversis	- I N N/	A Column Potalo: (1)
3. Avena sativa	N UP	Prevalence Index = B/A = 4,2
4		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0¹
7		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:	= Total Cover	- 1 Toblemano Trydrophyne Vegetation (Explain)
1		¹ Indicators of hydric soil and wetland hydrology must
2.		be present, unless disturbed or problematic.
	= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum 92 % Cove		Vegetation
Remarks:	el of biolic Crust(/	Present? Yes No
Contains.	1 16- 0805	ne Asolus 15- 11- 4
Pattern of veg seggests inhib: ted crop growth ou dense we to cover All	togt ing/	asci sould, on that
inhibited crop growth o Ou	its ipland from	rbowl teature are more
derse 10% cover All.	plants < 6" tal	//

^	$\overline{}$		
•	()	ы	

Sampling Point:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
	Depth Matrix Redox Features				. 2	- ,		
(inches)	Color (moist)	<u> </u>	Color (moist)		Type ¹	_Loc²	<u>Texture</u>	Remarks
100	10423/1	<u> 100 -</u>		$\widetilde{}$				
5-17	10433/1	100 -					_C_	
18+	1043 3/1	95	101R618		<u> </u>	M	<u> </u>	oxidized thezas
l			1048 4/6	5	<i>C.</i>	M		104R 6/8
-			- The distribution of the					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)								s for Problematic Hydric Soils³:
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) Stratified Layers (A5) (LRR C) Depleted Matrix (F3)							Red Parent Material (TF2) Other (Explain in Remarks)	
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)							Other	(Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)								
Thick Dark Surface (A12) Redox Depressions (F8)							³ Indicators of hydrophytic vegetation and	
Sandy Mucky Mineral (S1) Vernal Pools (F9)							wetland hydrology must be present,	
Sandy Gleyed Matrix (S4)						unless disturbed or problematic.		
Restrictive L	ayer (if present):				7.12.00			
Type:								
Depth (inches):							Hydric So	il Present? Yes No
Remarks:								
Acres also to the test Ill and a Mills								
Areaplowed but still much derker than upland areas. Redox features present at 18 inches.								
Redox Praturas ocesas Lat 185-100								
HYDROLOGY Westland Hydrology Indicators								
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)								
		<u>ie requirea, </u>						ondary Indicators (2 or more required)
Surface \			Salt Crust (B11)				Water Marks (B1) (Riverine)	
	ter Table (A2)		Biotic Crust (B12)				Sediment Deposits (B2) (Riverine)	
	Saturation (A3) — Aquatic Invertebrates (B13)							Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) — Hydrogen Sulfide Odor (C1) — Drainage Patterns (B10)								
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)								
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8)								
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6						Soils (C6)		Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)								Shallow Aquitard (D3)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations:								
				. >	180			
Surface Water Present? Yes No Depth (inches): / Depth (inches):								
Water Table Present? Yes No Depth (inches): Yes								
Saturation Present? Yes No Depth (inches): \(\mathcal{S}\) Wetland Hydrology Present? Yes No								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								
soil noist but not solvated below biches. Hoisture appears to concentrate in this topography bowl feature.								
concentrate in this topography bowl teadure.								