Project/Site: Avila Ranch	City/County: San	(<u>0.5065pe</u> Sampling Date: <u>5-8-14</u>
Applicant/Owner: Steve Per IX	NOTIFICATION OF THE PARTY OF TH	State: Sampling Point: 5 (01,
Investigator(s): Ja Tillia Keld & CPAL		
		, convex, none): Hat Slope (%): 0,5
Subregion (LRR): Mediterranean CA	Lat: 35,24060	Long: 10,66403 Datum: 4558
Soil Map Unit Name: Conclorion Log.		NWI classification: PEMA-P
Are climatic / hydrologic conditions on the site typical fo		'
Are Vegetation, Soil, or Hydrology		e "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		needed, explain any answers in Remarks.)
		locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No. 1	
Hydric Soil Present? Yes	No No	
Wetland Hydrology Present? Yes		and? Yes No
Remarks:	1	
		•
VEGETATION – Use scientific names of p	lants.	
Tree Stratum (Plot size: N/A)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1	% Cover Species? Status	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: 1/4)	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Saping/Shrub Stratum (Plot size: 7077)		Prevalence Index worksheet:
2.		Total % Cover of: Multiply by:
3.		OBL species x 1 =
4.		FACW species x 2 =
5		FAC species x 3 =
Liant Chapture (Distains)	= Total Cover	FACU species $3 \times 4 = 20$
Herb Stratum (Plot size:) 1. Malvella leprosa	4 FACU	UPL species x 5 =
2. Convolvelus arversis	- N WAL	Column Totals: (A) 35 (B)
3. Unidertified grass (435n)	- Z N UPL	Prevalence Index = B/A = 444
4		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0¹
7		☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	= Total Cover	Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:)	& = Total Cover	
4		¹ Indicators of hydric soil and wetland hydrology must
2.		be present, unless disturbed or problematic.
	= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum	over of Biotic Crust	Vegetation Present? Yes No
Remarks:		
ploved, veg growth;	elill consisten	-t
/ / / /	t	

Sampling Point: _____

Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type ¹ L	oc² Textur	o Domorto
		oc rextur	e Remarks
0-4 104R7/1 100			_ garvaresone
4-18 104R2/1 100			_ sand + roots
		771VT-MINE	
¹ Type: C=Concentration D=Doplotion PM	1=Reduced Matrix, CS=Covered or Coated S	and Grains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to al			tors for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	_	cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		em Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		educed Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		ed Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	<u> —</u> Ot	her (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)		tors of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		and hydrology must be present,
Sandy Gleyed Matrix (S4)		unle	ss disturbed or problematic.
Restrictive Layer (if present): Type:			
Турс.		111.1.	0.11 Page 100 V
Depth (inches): > 18 / \tag{8}	na de la companya de	Hyaric	Soil Present? Yes No
No depletions/reduc	fors , moist below	pin (Mi	genteal)
,	tions o moist below	Sin (Mig	zateal)
YDROLOGY	tions , moist below	6.5n (111/2	gerteel)
YDROLOGY Wetland Hydrology Indicators:			econdary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	ed; check all that apply)	<u>S</u>	econdary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	ed; check all that apply) Salt Crust (B11)	<u>S</u>	econdary Indicators (2 or more required) Water Marks (B1) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12)	S	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	S	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	S	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir	S	econdary 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)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4)	Sing Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (B	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
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YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (B Water-Stained Leaves (B9) Field Observations:	Sed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks)	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (B11) Salt Crust (B12) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks)	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present?	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Here	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Staturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present?	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Staturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present?	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Here	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe) Describe Recorded Data (stream gauge, metal)	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes includes capillary fringe) Describe Recorded Data (stream gauge, me	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes includes capillary fringe) Describe Recorded Data (stream gauge, meters)	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	ng Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Avila Ranch	Citv/Coun	tv:5	Sampling Date: 6-9-14
Applicant/Owner: Steve Pack		,	State: CA Sampling Point: 6 (045)
Investigator(s): 2 Tilliakert	Section 1	ownshin Ra	nge: <u>Sec11 T315 R1ZE</u>
Landform (hillslope, terrace, etc.): drafneal			convex, none): (Oncove Slope (%): 100
Subregion (LRR): Mediferrane CA			Long: 170,66676 Datum: 644589
Soil Map Unit Name: Cropley Clay	_ Lat. <u>0000</u>	100	Long: 7 Ces 660 Ce Datum: 2745 8 X
Are climatic / hydrologic conditions on the site typical for thi	a time of year? Vee	No	
Are Vegetation	-		(If no, explain in Remarks.)
	-		'Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r SUMMARY OF FINDINGS – Attach site map			eded, explain any answers in Remarks.)
		ng point i	podulono, transcoto, important roduireo, etc.
1 · · · · · — — — — — — — — — — — — — —	° Is	the Sampled	Area
Hydric Soil Present? Wetland Hydrology Present? Yes N	i wi	thin a Wetlar	nd? Yes <u>/</u> No
	o		
potentially historical	drainage fields	dewa	tered between two
VEGETATION – Use scientific names of plan			
1//1	Absolute Dominar	nt Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:/)	% Cover Species	? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC:(A)
2	·		Total Number of Dominant
3			Species Across All Strata: (B)
2011-121-121-121-121-121-121-121-121-121	= Total C	over	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 10 x1= 10
4.			FACW species 5 x 2 = LO
5.			FAC species x 3 =
2	= Total C	over	FACU species 50 x4= 200 Z20
Herb Stratum (Plot size:)	20 4	<i>~</i> 1. 1	UPL speciesx 5 =
1. Elymus glaucus	<u> 20 </u>	- FACU	Column Totals: SS (A) 285 (B)
2. Brassical nigra	- <u>70 - Y</u>	FKU	Prevalence Index = B/A = 3,35
3. Lotus comicomiculatus 4. Conium maculatum	- - 	- FAC	Hydrophytic Vegetation Indicators:
5. Phalacis aquatica	- 3 /	FACU	Dominance Test is >50%
6. Rapheris Lativa	- 10 //	FACU	— Prevalence Index is ≤3.0¹
7. Typha angus, folia	$\frac{10}{10}\frac{\%}{10}$	08 L	Morphological Adaptations ¹ (Provide supporting
8.			data in Remarks or on a separate sheet)
	95 = Total C	over	土 Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)			
1			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		-	
	= Total C		Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Crust	<u>/</u>	Present? Yes No
Remarks:	,		
high thatch cover, drains	e draina	ge con	itains weedy and
high thatch cover, drained	(J,, ,	
Outivated plants - may	occassiona	ally 6	ecisorded

Profile Descrip	otion: (Describe to the dep	h needed to document t	ne indicator	or confirm	the absence of i	ndicators.)	
Depth _	Matrix	Redox Feat					
(inches)	Color (moist) %	Color (moist) %		_Loc ²	Texture	Remarks	
<u> 0-5 (</u>	11ex 2,5/N 80	104R6/2 2	0 <u>D</u>	<u> </u>	<u> </u>		
5-17. 1	0423/1 38	10425/2 6	00	M	C		
		1043 4/6 2		M			
		<u> </u>		<u> </u>			
		-		,			
					<u> </u>		
				·			
	entration, D=Depletion, RM=			ed Sand Gra		n: PL=Pore Lining, M=Matrix.	
	icators: (Applicable to all I					Problematic Hydric Soils ³ :	
Histosol (A	•	Sandy Redox (S5)				(A9) (LRR C)	
Histic EpipeBlack Histic		Stripped Matrix (S				(A10) (LRR B)	
Black Histic		Loamy Mucky MinLoamy Gleyed Ma			Reduced Vertic (F18)Red Parent Material (TF2)		
	ayers (A5) (LRR C)	Loarny Gleyed Ma Depleted Matrix (F					
	(A9) (LRR D)	Redox Dark Surfa	•		<u></u> Other (Exp	lain in Remarks)	
	elow Dark Surface (A11)	Depleted Dark Sur					
	Surface (A12)	Redox Depression			³ Indicators of h	ydrophytic vegetation and	
Sandy Mucl	ky Mineral (S1)	Vernal Pools (F9)	` ,			ology must be present,	
Sandy Gley					-	bed or problematic.	
Restrictive Lay							
	Vonk.						
Depth (inche	s):				Hydric Soil Pre	sent? Yes 🖊 No	
Remarks:							
YDROLOGY	7						
	ogy Indicators:	M.A.					
-	rs (minimum of one required;	check all that apply)			Secondary	/ Indicators (2 or more required)	
Surface Wat		Salt Crust (B11)				Marks (B1) (Riverine)	
High Water		Biotic Crust (B12)				nent Deposits (B2) (Riverine)	
Saturation (/		Aquatic Invertebra				Deposits (B3) (Riverine)	
•	(B1) (Nonriverine)	Hydrogen Sulfide				age Patterns (B10)	
	eposits (B2) (Nonriverine)	Oxidized Rhizosp		Livina Roots		eason Water Table (C2)	
	s (B3) (Nonriverine)	Presence of Redu				sh Burrows (C8)	
				٠,	cruyii		
		Recent Iron Redu	ction in Tille	d Soils (C6)	1		
_ Surface Soil		Recent Iron Redu		d Soils (C6)	<u></u>	ation Visible on Aerial Imagery (0 w Aquitard (D3)	

__ Depth (inches): _

(includes capillary fringe)

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

__ No __/_ Depth (inches): __> 12.5~_

US Army Corps of Engineers

Field Observations: Surface Water Present?

Water Table Present? Saturation Present?

Remarks:

Wetland Hydrology Present? Yes _____

Project/Site: Avila Ranch City/County: Sa	2603 86300. Sampling Date: 12-15-15
Applicant/Owner: Stave Peck	State: Sampling Point:
Investigator(s): 1. Tilligkeit of Poliman Section, Township,	Range: <u>Secli T31S R12E</u>
Landform (hillslope, terrace, etc.): <u>a rainage</u> Local relief (concar	re, convex, none): <u>(on cave</u> Slope (%): <u>1, ban</u> KS1C
Subregion (LRR): LR Lat: 35. 406 P	Long: 1256680 Datum. WC337
Soil Map Unit Name: Copley Clay, 0-2%	NWI classification: PEMCX
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 point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Same	Jul Anna
Hydric Soil Present? Hydric Soil Present? Yes No Is the Samp No within a Wes	
Wetland Hydrology Present? Yes No	100 <u>- </u>
Remarks: Drought year, point located in draininge flowed in awhile	ditch that probably hown't
VEGETATION – Use scientific names of plants. Absolute Dominant Indicat	or Dominance Test worksheet:
Tree Stratum (Plot size: _none_)	Number of Dominant Species
1	That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant
3	Species Across All Strata: (B)
4 = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:)	17.4.1.0002,11.1.01.
1	Prevalence Index worksheet:
2	
3	FACW species 40 $x2 = 80$
4	FAC species
5 = Total Cover	FACU species 36 x4= 144
Herb Stratum (Plot size: ()	UPL species x 5 =
1. Schoenoplectus cultornicus 50 Y OF	- Column rotals C (A) (A)
2. Consum maculatum 40 4 Fix	Prevalence Index = B/A = Z _o Z
3. Helminthothernechiodes 30 4 FXC	
5. Phalais agratica 1 N FACE	- ; · · ·
6. Hischfeldia incana 1 N UPL	
7	Morphological Adaptations¹ (Provide supporting
8	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
127 = Total Cover	T Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:	¹ Indicators of hydric soil and wetland hydrology must
1	be present, unless disturbed or problematic.
2 = Total Cover	Hydrophytic
% Bare Ground in Herb Stratum 20 % Cover of Biotic Crust	Vegetation Present? Yes \(\setminus \) No \(\setminus \)
	11000111
Remarks:	

SO	11	
\mathbf{v}	-	

Sampling Point: _________

Profile Des	cription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirn	n the absence of	indicators.)
Depth	Matrix		Redox	x Features	s			·
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	Loc ²	Texture	Remarks
2 5	104R 2/1	100	none					1016
3-12+	104132/1	_56_	104R 4/2	40	$\underline{\mathcal{Q}}$	M	_C	
			104R 518	4	C	PL		
							-	
								
								134
¹ Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, CS	=Covered	or Coate	d Sand Gr	ains. ² Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all	LRRs, unless other	wise note	ed.)			Problematic Hydric Soils ³ :
Histosol			Sandy Redo	x (S5)			1 cm Muck	(A9) (LRR C)
	oipedon (A2)		Stripped Mat					(A10) (LRR B)
Black Hi			Loamy Muck	•	. ,			/ertic (F18)
	n Sulfide (A4) I Layers (A5) (LRR C	1	Loamy Gleye		(F2)			nt Material (TF2)
	ick (A9) (LRR D)	,	Depleted Ma Redox Dark		F6)		Other (Exp	olain in Remarks)
	Below Dark Surface	(A11)	Depleted Dai	•	,			
	ark Surface (A12)	, ,	Redox Depre				³ Indicators of h	ydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pools		,			rology must be present,
	leyed Matrix (S4)							bed or problematic.
	.ayer (if present):							
	none	, ,						
Depth (inc	ches): <i>> [</i>	nche	<u>S</u>				Hydric Soil Pres	sent? Yes <u>/</u> No
Remarks:								
HYDROLOG	GY .							
Wetland Hyd	Irology Indicators:							
Primary Indic	ators (minimum of on	e required:	check all that apply)				Secondary	/ Indicators (2 or more required)
	Vater (A1)		Salt Crust (E		Wat		•	Marks (B1) (Riverine)
High Wat	ter Table (A2)		Biotic Crust					nent Deposits (B2) (Riverine)
Saturatio	n (A3)		Aquatic Inve		(B13)			Deposits (B3) (Riverine)
Water Ma	arks (B1) (Nonriverin	ie)	Hydrogen S					age Patterns (B10)
Sediment	t Deposits (B2) (Non i	riverine)	Oxidized Rh			ivina Root		eason Water Table (C2)
Drift Depo	osits (B3) (Nonriveri i	ne)	Presence of					sh Burrows (C8)
Surface S	Soil Cracks (B6)		Recent Iron	Reduction	n in Tilled	Soils (C6)		ation Visible on Aerial Imagery (C9)
Inundatio	n Visible on Aerial Im	agery (B7)	Thin Muck S	Surface (C	7)	, ,		w Aguitard (D3)
	ained Leaves (B9)		Other (Expla	ain in Rem	narks)		FAC-N	Neutral Test (D5)
Field Observ	ations:		/					, ,
Surface Wate	r Present? Yes	3 N				_		
Water Table F	Present? Yes	s N	o Depth (inch	es):	12"	_		
Saturation Pre	esent? Yes	s N	o Depth (inch			Wetla	nd Hydrology Pre	esent? Yes / No
(includes capi Describe Rec	llary fringe) orded Data (stream g	alide mon	itoring wall social at	otoo ===	daya !			
	oraca pala (siledili g	auge, mon	itoring well, aerial ph	oios, prev	nous inspe	ections), if	available:	
Remarks:				-				
1	1 . 0	, /						
1000	st in Deci	embe						

Project/Site: Avila Ranch	City/C	County: San	Lυξς Θ6/ <u>\$ρο</u> Sampling Date: <u>12-15-1</u>
Applicant/Owner: Steve Peck	,		State: A Sampling Point: 8
Investigator(s): Jotilliqueit & Jo Pohla	<u>ran</u> Secti	on, Township, Rar	nge: Secto T315 RIZE
Landform (hillslope, terrace, etc.): $f(a+f)$			
Subregion (LRR): 188	Lat: 35.0	14063	Long: -120,66694 Datum: WC758
Soil Map Unit Name: 1/opley clay 0-7	10	************	NWI classification: PEMAF
Are climatic / hydrologic conditions on the site typical for this	time of year?	′es No _∟	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologyn	aturally problem	atic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing san	npling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	0	Is the Sampled	Area
Hydric Soil Present? Yes No		within a Wetlan	
Wetland Hydrology Present? Yes No Remarks:	0		
Prought year			
VEGETATION – Use scientific names of plant			F
Tree Stratum (Plot size: _none_)		minant Indicator ecies? Status	Dominance Test worksheet: Number of Dominant Species
1			That Are OBL, FACW, or FAC:(A)
2			Total Number of Dominant
3			Species Across All Strata: (B)
4		otal Cover	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: none)		nai Covei	That Are OBL, FACW, or FAC: (A/B)
1			Prevalence Index worksheet:
2			Total % Cover of: Multiply by: OBL species
3.	,		OBL species x1 = FACW species x2 =
4			FAC species
	= To	otal Cover	FACU species x 4 =
Herb Stratum (Plot size: Mone)			UPL species x 5 =
1	. — —		Column Totals: (A) (B)
2	. — —		Prevalence Index = B/A =
4.			Hydrophytic Vegetation Indicators:
5.			Dominance Test is >50%
6.			 Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting
7			data in Remarks or on a separate sheet)
6.	= To	otal Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:nonl_)			The Read of the Control of the Contr
1			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		otal Cover	Hydrophytic
ND 0 1111 100 110			Vegetation
	of Biotic Crust _		Present? Yes No/_
Remarks:			
Plowed fam field	•		

S	O	I	L

Sampling Point:

Depth	ription: (Describe Matrix	io uio uopiii		x Feature		or commi	the absence of	maicators.;	
(inches)	Color (moist)	%	Color (moist)	<u> </u>	_Type ¹	Loc ²	Texture	Remarks	
0-12+	10422/1	100	none				C		
									-
				-					
•				-		•			
					-				
1									
	oncentration, D=Depl					d Sand Gr		on: PL=Pore Lining, N	
	Indicators: (Applica	able to all LF			∋d.)			Problematic Hydric	Soils*:
Histosol			Sandy Red					(A40) (LRR C)	
Black Hi	oipedon (A2)		Stripped Ma Loamy Mud		1 (E4)			(A10) (LRR B)	
	n Sulfide (A4)		Loamy Gley					/ertic (F18) nt Material (TF2)	
	l Layers (A5) (LRR C	;)	Depleted M		(1 2)			plain in Remarks)	
	ck (A9) (LRR D)	,	Redox Dark		F6)		Out or (EX	nam mr Komunto,	
Depleted	l Below Dark Surface	e (A11)	Depleted Da		•				
	rk Surface (A12)		Redox Dep	ressions (F	- 8)		³ Indicators of h	ydrophytic vegetation	and
	lucky Mineral (S1)		Vernal Pool	s (F9)			-	rology must be preser	nt,
	leyed Matrix (S4)						unless distu	rbed or problematic.	
	ayer (if present):								_
	none								
Depth (inc	ches): <u>>12</u> .	nches	_				Hydric Soil Pre	sent? Yes	No
Remarks:									,
HYDROLO	GY								
	Irology Indicators:								
_	ators (minimum of or	ne required: c	hack all that anni	٨			Cocondor	y Indicators (2 or mor	a raquirad\
	Water (A1)	io rogalica, c							
	ter Table (A2)		Salt Crust Biotic Crus					r Marks (B1) (Riverin	•
Saturatio	, ,		Aquatic Inv		(D42)			nent Deposits (B2) (R	
	arks (B1) (Nonriveri i	na)	Aquatic in		, ,			Deposits (B3) (Riverir	ie)
	t Deposits (B2) (Non	=	Oxidized R			ivina Poot		age Patterns (B10) season Water Table (0	201
	osits (B3) (Nonriver	•	Presence of	-	_	-	— .	ish Burrows (C8)	52)
	Soil Cracks (B6)		Recent Iro		•	•		ation Visible on Aerial	Imageny (CO)
	on Visible on Aerial In	nagery (B7)	Thin Muck			20113 (00)		ow Aquitard (D3)	illiagery (C9)
	ained Leaves (B9)		Other (Exp	•	•			Neutral Test (D5)	
Field Observ				141111111111				redutal Test (Do)	
Surface Water		es No	Depth (inc	hee).	12"				
Water Table I			Depth (inc		-12 "	_			_
Saturation Pro			Depth (inc		1211		and Headan In an a Da	40 V	N
(includes cap	illary fringe)							esent? Yes	No_ <u>✓</u>
Describe Rec	orded Data (stream	gauge, monite	oring well, aerial p	hotos, pre	vious insp	pections), it	f available:		
Remarks:									
								4	•

Project/Site: fl/la harch City/Cour	nty: <u>San Lui's Obi's Po</u> Sampling Date: <u>12-15-15</u>
Applicant/Owner: Steve Peck	State: A Sampling Point: 9
Investigator(s): 1. Tilliakeit of Pohlman Section,	Township, Range: <u>Sec 11 73/5 R1ZE</u>
Landform (hillslope, terrace, etc.): flat Local reli	<u>^</u>
Subregion (LRR): LRC Lat: 3.5.2	<u> 3983</u> Long: <u>- 110 56587</u> Datum: <u>WAS8</u> 5
Soil Map Unit Name: Cropley Clay, 0-2%	
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	
Hydric Soil Present? Yes No V	the Sampled Area thin a Wetland? Yes No
VEGETATION – Use scientific names of plants.	
	nt Indicator Dominance Test worksheet:
Tree Stratum (Plot size: 1000 % Cover Species	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1	
3.	Total Number of Dominant Species Across All Strata: (B)
4.	'
= Total C	Percent of Dominant Species Cover That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: Mone)	Prevalence Index worksheet:
1	Total % Cover of: Multiply by:
3	OBL species x1 =
4.	FACW species x 2 = O
5.	FAC species x 3 =
= Total (
Herb Stratum (Plot size:none)	UPL species x 5 =
1	— — Column Totals: <u>(A)</u> (A) (B)
2	Prevalence Index = B/A =
3	Hydrophytic Vegetation Indicators:
5.	Dominance Test is >50%
6.	
7.	Morphological Adaptations¹ (Provide supporting
8	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
= Total (Cover Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:	¹ Indicators of hydric soil and wetland hydrology must
2.	be present, unless disturbed or problematic.
= Total (Vegetation
% Bare Ground in Herb Stratum(OO % Cover of Biotic Crust	Present? Yes No
Remarks:	
Plowed form field	

SOIL		Sampling Point:
		· ·
Profile Description: (Describe to the dep	oth needed to document the indicator or confirm the abser	nce of indicators.)

Depth	Matrix			nent the indicator or x Features		osence	or indicators.)
(inches)	Color (moist)	%	Color (moist)	%Type ¹	Loc ² Tex	ture_	Remarks
0-12+	104R2/1	100	none	in the second of	(> ب	

		· — –					
				·			
		-					
17			Na de la cala de la ca			2,	
				S=Covered or Coated			cation: PL=Pore Lining, M=Matrix.
	ndicators: (Applic	able to all Li		•	ina		for Problematic Hydric Soils ³ :
Histosol	` '		Sandy Red		•		fluck (A9) (LRR C)
	ipedon (A2)		Stripped Ma				fluck (A10) (LRR B)
Black His				ky Mineral (F1)			ed Vertic (F18)
	n Sulfide (A4)			ed Matrix (F2)		Red Pa	arent Material (TF2)
	Layers (A5) (LRR (C)	Depleted M	atrix (F3)		Other ((Explain in Remarks)
	ck (A9) (LRR D)		Redox Dark	Surface (F6)			
Depleted	Below Dark Surface	e (A11)	Depleted Da	ark Surface (F7)			•
Thick Da	rk Surface (A12)			essions (F8)	³ Ind	licators	of hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Pool	s (F9)	W	etland l	hydrology must be present,
Sandy G	leyed Matrix (S4)				u	nless di	isturbed or problematic.
Restrictive L	ayer (if present):						
Туре:	rone						
Depth (inc	hes):>/7	inches			Hvdi	ric Soil	Present? Yes No
Remarks:	,						
HYDROLO	3Y						
Wetland Hyd	rology Indicators:						
-	ators (minimum of o	ne required:	check all that anni	۸		Secon	dary Indicators (2 or more required)
		ne regaired,	-			-	
	Water (A1)		Salt Crust	•			/ater Marks (B1) (Riverine)
	er Table (A2)		Biotic Crus	•			ediment Deposits (B2) (Riverine)
Saturatio	n (A3)		Aquatic Inv	ertebrates (B13)		D	rift Deposits (B3) (Riverine)
Water Ma	arks (B1) (Nonriver i	ne)	Hydrogen	Sulfide Odor (C1)		D	rainage Patterns (B10)
Sedimen	t Deposits (B2) (No i	rriverine)	Oxidized R	hizospheres along Liv	ing Roots (C3)	D	ry-Season Water Table (C2)
Drift Dep	osits (B3) (Nonrive	ine)	Presence of	of Reduced Iron (C4)		C	rayfish Burrows (C8)
	Soil Cracks (B6)		·	n Reduction in Tilled S	Soils (C6)		aturation Visible on Aerial Imagery (C9)
	n Visible on Aerial I	magery (B7)		Surface (C7)	70.10 (00)		hallow Aquitard (D3)
	ained Leaves (B9)	nagery (D7)					
			Other (Exp	lain in Remarks)	T		AC-Neutral Test (D5)
Field Observ				1 . 2 //			
Surface Wate	r Present? Y	es No	Depth (ind	thes):			
Water Table I	Present? Y	es No	Depth (inc	hes): <u> </u>	!		
Saturation Pro	esent? Ye	es No	Depth (inc	hes): >12"	Wetland Hv	droloav	Present? Yes No
(includes cap	llary fringe)	-			_		proposition to the second seco
Describe Rec	orded Data (stream	gauge, moni	toring well, aerial p	hotos, previous inspe	ctions), if availa	ıble:	
Remarks:							

Project/Site: Avila Ranch	(Citv/Countv	Sin	(U.S 06.5 pc Sampling Date: 12-15-15
Applicant/Owner: Steve Peck				State: CA Sampling Point: 10
Investigator(s): JoTilliakeit boololma	~ (Section, To	wnship, Ra	
				convex, none): <u>(</u>
Subregion (LRR): LRRC	Lat: 33	5.237	98	Long: 170,66945 Datum: WGS 8 <
Soil Map Unit Name: Crapley clary				NWI classification: PSSCX
Are climatic / hydrologic conditions on the site typical for th				
Are Vegetation, Soil, or Hydrology	-			'Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	,			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map			•	
Hydric Soil Present? Wetland Hydrology Present? Remarks:	No No No	ı	e Sampled in a Wetlar	. /
Drought year VEGETATION – Use scientific names of plan				
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2		•		Total Number of Dominant
4	-			Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 3)	0	= Total Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. Salix lasiolepsis	5	4	EXCW	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species <u>70</u> x1= <u>70</u>
4				FACW species x 2 = (O ·
5		-		FAC species $2 \times 3 = 2 \times 3 = $
Harh Stratum (Plat size: 32)	5	= Total Co	ver	FACU species X 4 = X 120
Herb Stratum (Plot size: 3m) 1. Schoenoplectus californica	15 70	9	OBL	UPL species 3 $x5 = 6$ Column Totals: 1.98 (A) 2.95 (B)
2 Ferraculus Wolacel	10	$\overline{\mathcal{N}}$	FACU	
3. Helmigthothera echiodes	7.0	N.	FACU	Prevalence Index = B/A = 1.99
4. Hischfeldia incara	3	\mathcal{N}	UPL	Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0¹
7				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	- —			
Woody Vine Stratum (Plot size: へつっと)		= Total Co	ver	
1			•	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2	- <u> </u>	= Total Co	ver	Hydrophytic
% Bare Ground in Herb Stratum	er of Biotic Cr	•		Vegetation Present? Yes No
Remarks:				
				1

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v	v	▙

Sampling Point: __/ 〇

Profile Desc	ription: (Describe t	o the dep	th needed to docun	nent the i	ndicator	or confirm	the absence of ir	ndicators.)
Depth	Matrix			x Features	3			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	101RZ/1	100	none					<u>.</u>
2-12+	104R 2/1	15	1042412	80	0	M	L	
			1042414	.3	\overline{O}	M		
•			104R 518	7		.27		
		•	10/13/2			<u> </u>		
								
				•				
¹Type: C=C		etion PM:		=Covered	i or Coate	d Sand Gr	aine ² Location	n: PL=Pore Lining, M=Matrix.
	Indicators: (Applica					u Ouriu Or		Problematic Hydric Soils ³ :
Histosol			Sandy Redo		,			(A9) (LRR C)
i —	pipedon (A2)		Stripped Ma					(A10) (LRR B)
Black Hi			Loamy Mucl		l (F1)		Reduced V	
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent	t Material (TF2)
	d Layers (A5) (LRR C	;)	Depleted Ma	atrix (F3)			Other (Exp	lain in Remarks)
	ıck (A9) (LRR D)		Redox Dark	Surface (F6)			
	d Below Dark Surface	e (A11)	Depleted Da				2	
	ark Surface (A12)		Redox Depr		- 8)			ydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pools	s (F9)			•	ology must be present,
	leyed Matrix (S4) ayer (if present):						uniess distur	bed or problematic.
	none							
	- `	inch						
Depth (in	cnes): $ \nearrow 1 $	1164	<u>e2</u>				Hydric Soil Pres	sent? Yes V No
Remarks:								
HYDROLO	GY							
	drology Indicators:							
_	cators (minimum of or	a require	t check all that annly	٨			Secondari	/ Indicators (2 or more required)
l .	Water (A1)	ic required	Salt Crust	-				
l —	iter Table (A2)			• •				Marks (B1) (Riverine)
			Biotic Crus		~ (D40)			nent Deposits (B2) (Riverine)
Saturation		no)	Aquatic Inv Hydrogen S				The second secon	Deposits (B3) (Riverine) age Patterns (B10)
	arks (B1) (Nonriveri nt Deposits (B2) (No n		Oxidized R			Living Boo		eason Water Table (C2)
	posits (B3) (Nonriver		Oxidized N		_	_		sh Burrows (C8)
	Soil Cracks (B6)	iiie)	Recent Iron		•	•		ation Visible on Aerial Imagery (C9)
	on Visible on Aerial Ir	nageni (B.				i Solis (Co		ow Aquitard (D3)
1 —	tained Leaves (B9)	nagery (D	Other (Exp	•	•			Neutral Test (D5)
Field Obser			Other (Exp	Ialli III IVE	iliaiko)			veditai Test (D3)
			No. Donth (inc	,book	124			
Surface Wate			No Depth (inc	:nes):	1011	-		
Water Table		es			120			
Saturation Page (includes cap		es	No Depth (inc	:nes):	116	_ Wetla	and Hydrology Pre	esent? Yes No
	corded Data (stream	gauge, mo	nitoring well, aerial p	hotos, pre	evious ins	pections), i	if available:	
	•	- - ·	- ·	- •	'	• • • • • • • • • • • • • • • • • • • •		
Remarks:								

Project/Site: Avila Ranch		City/County	: 5an	Cus Obis 00 Sampling Date: 12-15-15
· · · · · · · · · · · · · · · · · · ·				State: A Sampling Point:
Investigator(s): JoTilliqueity JoPohla				
Landform (hillslope, terrace, etc.): +errace				Z)
Subregion (LRR): LRAC				
Soil Map Unit Name: Conclacon loam				
Are climatic / hydrologic conditions on the site typical for this				
				Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologysi				
SUMMARY OF FINDINGS – Attach site map	•			eded, explain any answers in Remarks.) ocations, transects, important features, etc.
			3	, , , , , , , , , , , , , , , , , , , ,
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			e Sampled	Area
	ο <u>υ</u>	with	in a Wetlar	nd? Yes State No
				-
Prought year, point take. Tank Farm Creek	r un	de f	hea	illow canopy next to
VEGETATION – Use scientific names of plant				
Tree Stratum (Plot size: 3 m)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Scilix lasiolepsis			FACW.	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.				
3				Total Number of Dominant Species Across All Strata: (B)
4	. ——			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 3m)	90	= Total Co	ver	That Are OBL, FACW, or FAC: 40 (A/B)
1. Bucharis pilularis	5		UPL	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x1 = 0
4				FACW species $99 \times 2 = 182$
5				FAC species x3 = 0
Herb Stratum (Plot size: 3 m)	6	= Total Co		FACU species x 4 = UPL species x 5 = 3
1. Helminthotheca pchiodes	1	Y	FACU	UPL species $\frac{6}{98}$ x 5 = $\frac{30}{216}$ (B)
2. Canium maculatum		<u> </u>	FACW	1
3. Avera fatva		$ \leftarrow$	UPL	Prevalence Index = B/A = 2.2
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0¹ The state of t
7				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	3			Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:		= Total Co	ver	
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Co	ver	Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic Ci	rustC	2	Vegetation Present? Yes No
Remarks:				
				,

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Sampling Point:

Profile Description: (Describe to the depth	needed to docu	nent the i	ndicator	or confirm	the absence of i	ndicators.)
Depth Matrix	Redo	x Features				
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2 104RZ/1	none					
2-12+ 104R4 20	none		_	_	L	
10421280	none					
			•			
			-			
¹ Type: C=Concentration, D=Depletion, RM=F	Peduced Matrix CS	- ———	Lor Cooto	d Cand Cr	raine ² l contin	n. Di -Dan Lining M-M-Milia
Hydric Soil Indicators: (Applicable to all L	RRs. unless other	rwise note	ed.)	u Sanu Gi		n: PL=Pore Lining, M=Matrix. Problematic Hydric Soils³:
Histosol (A1)	Sandy Red		,u.,			(A9) (LRR C)
Histic Epipedon (A2)	Stripped Ma					(A10) (LRR B)
Black Histic (A3)	Loamy Muc		(F1)		Reduced V	
Hydrogen Sulfide (A4)	Loamy Gley					t Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted M	atrix (F3)	•		Other (Exp	lain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark	,	,			
Depleted Below Dark Surface (A11)	Depleted Da				3	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Depr		·8)		The state of the s	ydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Vernal Pool	s (F9)			·	ology must be present, bed or problematic.
Restrictive Layer (if present):					uniess distui	bed of problematic.
Type:none						
Depth (inches): >12:nches	_				Hydric Soil Pres	sent? Yes No
Remarks:					Tryunc con rie.	3eit: 1e3 NO
, contained						
						-
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one required;	check all that apply	()			Secondary	/ Indicators (2 or more required)
Surface Water (A1)	Salt Crust	(B11)			Water	Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crus					nent Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Inv	ertebrates	(B13)			peposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen				3	age Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized R	hizospher	es along l	iving Root		eason Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of	of Reduced	l Iron (C4))	Crayfi	sh Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron	n Reductio	n in Tilled	Soils (C6)) <u>±</u> Satura	ation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck	Surface (C	C7)		Shallo	w Aquitard (D3)
Water-Stained Leaves (B9)	Other (Exp	lain in Rer	narks)		FAC-N	Veutral Test (D5)
Field Observations:			_			
Surface Water Present? Yes No	Depth (inc	hes):	712in	_		
Water Table Present? Yes No	Depth (inc	:hes):	>12:1	_		
Saturation Present? Yes No	Depth (inc	hes):	>12:-	<u>∠</u> Wetla	nd Hydrology Pre	esent? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, moni				1	f available:	
Doosing Recorded Data (Stream gauge, 111011)	omig well, aelial p	notos, pre	งเบนธ เกรุ	ecuoπs), II	ı avallable:	
Pomorko						
Remarks:	1 - 12 - 6	10-	e		lar . ull.	2016 - 201
Directly adjacent +	-o Man	Wa	nag	e, ur	wer will	m canopy
\checkmark						
						′ ′ ′
						, ,

Project/Site: Avila Rusch City/Count	ty: <u>San (u'S Obispo</u> Sampling Date: <u>12-15-15</u>
Applicant/Owner: Steve Peck	State: CA Sampling Point: 12
Investigator(s): JoTillighteit & JoPohlman Section, T	
Landform (hillslope, terrace, etc.): + lat Local relie	α
Subregion (LRR):	
	NWI classification: PEMAF
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 sampling.	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Vegetation Present? Yes No Vegetation Present?	the Sampled Area
Wetland Hydrology Present? Yes No wit	hin a Wetland? Yes No
Demodes	
Drought year, planed farm field	
VEGETATION – Use scientific names of plants.	
Tree Stratum (Plot size: 3 Cover Species'	
Tree Stratum (Plot size:	Number of Dominant Species 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: 3)	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
5 = Total C	FAC species
Herb Stratum (Plot size: 3m)	UPL species x 5 = 0
1	5.
2	
3	
4	
5	
6	
8	data in Remarks or on a separate sheet)
= Total C	over Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:	
1	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2	
= Total C	Vegetation
% Bare Ground in Herb Stratum 100 % Cover of Biotic Crust	Present? Yes No
Remarks:	
	•

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Sampling Point: (C	Sampling Point:	12
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Depth _ (inches)	Color (moist)	%	Redo Color (moist)	%Type	Loc ²	Texture	Remarks
O-12+	10YR2/1	100	none				
	10//11		, ,				
				 			
						-	
							
ype: C=Con	centration, D=Depl	etion, RM=F	Reduced Matrix, C	S=Covered or Co	ated Sand G		cation: PL=Pore Lining, M=Matrix.
ydric Soil In	dicators: (Applica	ble to all Li	RRs, unless othe	rwise noted.)		Indicators	s for Problematic Hydric Soils ³ :
_ Histosol (A	1 1)		Sandy Red	ox (S5)		1 cm f	Muck (A9) (LRR C)
	pedon (A2)		Stripped Ma				Muck (A10) (LRR B)
_ Black Histi				cky Mineral (F1)		-	ced Vertic (F18)
	Sulfide (A4)	`		yed Matrix (F2)			Parent Material (TF2)
	Layers (A5) (LRR C)	Depleted M			Other	(Explain in Remarks)
	k (A9) (LRR D) Below Dark Surface	(Δ11)	—	k Surface (F6) ark Surface (F7)			
	k Surface (A12)	(וורץ		ressions (F8)		3Indicators	of hydrophytic vegetation and
_	cky Mineral (S1)		Vernal Poo	, ,			hydrology must be present,
	eyed Matrix (S4)		<u></u>		•		disturbed or problematic.
estrictive La	yer (if present):						
Туре:	none						
Depth (inch	ies):	nches				Hydric Soi	l Present? Yes No <u></u>
Depth (inch Remarks:	nes): <u> </u>	inches				Hydric Soi	I Present? Yes No
	nes): <u> </u>	nches				Hydric Soi	I Present? Yes No
emarks:	iY	inches				Hydric Soi	I Present? Yes No
emarks: /DROLOG /etland Hydr	sY ology Indicators:						
emarks: 'DROLOG /etland Hydr	iY						I Present? Yes No
emarks: /DROLOG /etland Hydr	i Y rology Indicators: tors (minimum of or		check all that app			Seco	
PROLOG Vetland Hydr rimary Indicat Surface W High Wate	ology Indicators: tors (minimum of or Jater (A1) er Table (A2)		Salt Crust Biotic Cru	t (B11) st (B12)		<u>Seco</u> \	ndary Indicators (2 or more required)
POROLOG Vetland Hydr rimary Indicat Surface W	ology Indicators: tors (minimum of or Jater (A1) er Table (A2)		Salt Crust Biotic Cru Aquatic In	t (B11) st (B12) overtebrates (B13		<u>Seco</u> \ S	ondary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
PROLOG Vetland Hydr rimary Indicat Surface W High Wate Saturation	ology Indicators: tors (minimum of or Jater (A1) er Table (A2)	ne required;	Salt Crust Biotic Cru Aquatic In	t (B11) st (B12)		<u>Seco</u> \ S	indary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
YDROLOG Vetland Hydr Primary Indicat Surface W High Wate Saturation Water Mai	ology Indicators: tors (minimum of or water (A1) er Table (A2)	ne required;	Salt Crust Biotic Cru Aquatic In Hydrogen	t (B11) st (B12) overtebrates (B13 Sulfide Odor (C)	<u>Seco</u> V S [ondary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mai	Tology Indicators: tors (minimum of or later (A1) er Table (A2) i (A3) rks (B1) (Nonriveri	ne required; ne) nriverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized	t (B11) st (B12) overtebrates (B13 Sulfide Odor (C	l) ng Living Ro	Seco \(\sigma \) \(\sigma \) \(\sigma \) \(\sigma \) ots \((C3) \) \(\sigma \)	indary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
YDROLOG Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) n (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering Care)	ne required; ne) nriverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	st (B11) st (B12) avertebrates (B13 Sulfide Odor (C Rhizospheres alc	ng Living Ro (C4)	Seco \ \ \ \ \ \ \	ndary 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)
VDROLOG Vetland Hydr Vrimary Indicat Surface Water Mater Water Mater Sediment Drift Depo	rology Indicators: tors (minimum of or vater (A1) or Table (A2) or (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering)	ne required; ne) nriverine) ine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	t (B11) st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron	ng Living Ro (C4)	Seco	Indary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOG Vetland Hydr Primary Indicat Surface W High Wate Saturation Water Mai Sediment Drift Depo Surface Si Inundatior Water-Sta	tors (minimum of or vater (A1) er Table (A2) a (A3) rks (B1) (Nonriveriant Deposits (B2) (Nonriveriant sits (B3) (Nonriveriant oil Cracks (B6) a Visible on Aerial Intend Leaves (B9)	ne required; ne) nriverine) ine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized In Presence Recent Iro	t (B11) st (B12) overtebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in T	ng Living Roo (C4) illed Soils (C	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
YDROLOG Vetland Hydr Primary Indicat Surface W. High Water Saturation Water Man Sediment Drift Depo Surface So Inundatior Water-Sta	tors (minimum of or vater (A1) er Table (A2) a (A3) rks (B1) (Nonriveriant Deposits (B2) (Nonriveriant sits (B3) (Nonriveriant oil Cracks (B6) a Visible on Aerial Intend Leaves (B9)	ne required; ne) iriverine) ine) nagery (B7)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Mucl Other (Ex	t (B11) st (B12) avertebrates (B13 Sulfide Odor (Circ Rhizospheres ald of Reduced Iron on Reduction in Tax x Surface (C7) plain in Remarks	ng Living Roo (C4) illed Soils (C	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8)
YDROLOG Vetland Hydr Primary Indical Surface W High Wate Saturation Water Man Sediment Drift Depo Surface Si Inundatior	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverin Deposits (B2) (Nonriverin sits (B3) (Nonriverin oil Cracks (B6) n Visible on Aerial In tined Leaves (B9) ations:	ne required; ne) iriverine) ine) nagery (B7)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized In Presence Recent Iro	t (B11) st (B12) avertebrates (B13 Sulfide Odor (Circ Rhizospheres ald of Reduced Iron on Reduction in Tax x Surface (C7) plain in Remarks	ng Living Roo (C4) illed Soils (C	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8)
YDROLOG Vetland Hydr Primary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Surface So Inundatior Water-Sta	Fology Indicators: tors (minimum of or vater (A1) er Table (A2) n (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering Cracks (B6) n Visible on Aerial Intimed Leaves (B9) ations:	ne required; ne) iriverine) ine) nagery (B7)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex	t (B11) st (B12) overtebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in T & Surface (C7) plain in Remarks	ng Living Roo (C4) illed Soils (C	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOG Vetland Hydr Primary Indical Surface W High Water Saturation Water Man Sediment Drift Depo Surface Si Inundatior Water-Sta Sield Observa	rology Indicators: tors (minimum of or Vater (A1) er Table (A2) n (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering Cracks (B6) n Visible on Aerial Intined Leaves (B9) ations: Present? Yearesent?	ne required; ne) iriverine) ine) nagery (B7)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex	st (B11) st (B12) evertebrates (B13 Sulfide Odor (C' Rhizospheres alc of Reduced Iron on Reduction in T of Surface (C7) plain in Remarks eches): \(\sum_{12} \) 12 eches): \(\sum_{12} \) 12	ng Living Roo (C4) iilled Soils (C0)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8)
YDROLOG Vetland Hydr Primary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Surface So Inundatior Water-Sta Sield Observa Surface Water Vater Table P Saturation Pre Includes capil	rology Indicators: tors (minimum of or vater (A1) or Table (A2) or (A3) rks (B1) (Nonriverial Deposits (B2) (Nonriverial Oracks (B6) or Visible on Aerial In tined Leaves (B9) ations: Present? resent? ye sent? ye lary fringe)	ne required; ne) nriverine) ine) nagery (B7) es No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex Depth (ir	it (B11) st (B12) avertebrates (B13 Sulfide Odor (Critical Reduced Iron on Reduction in Tax Surface (C7) plain in Remarks aches): 12 aches): 12 aches): 12	ng Living Roo (C4) illed Soils (C0)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOG Vetland Hydr Primary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Surface So Inundatior Water-Sta Field Observa Surface Water Vater Table P Saturation Pre includes capil	rology Indicators: tors (minimum of orwater (A1) er Table (A2) n (A3) rks (B1) (Nonrivering the content of the	ne required; ne) nriverine) ine) nagery (B7) es No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex Depth (ir	it (B11) st (B12) avertebrates (B13 Sulfide Odor (Critical Reduced Iron on Reduction in Tax Surface (C7) plain in Remarks aches): 12 aches): 12 aches): 12	ng Living Roo (C4) illed Soils (C0)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOG Vetland Hydr Primary Indicat Surface W High Water Saturation Water Man Sediment Drift Depo Surface So Inundation Water-Sta Sield Observa Surface Water Vater Table P Saturation Pre includes capill Describe Reco	rology Indicators: tors (minimum of or vater (A1) or Table (A2) or (A3) rks (B1) (Nonriverial Deposits (B2) (Nonriverial Oracks (B6) or Visible on Aerial In tined Leaves (B9) ations: Present? resent? ye sent? ye lary fringe)	ne required; ne) nriverine) ine) nagery (B7) es No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex Depth (ir	it (B11) st (B12) avertebrates (B13 Sulfide Odor (Critical Reduced Iron on Reduction in Tax Surface (C7) plain in Remarks aches): 12 aches): 12 aches): 12	ng Living Roo (C4) illed Soils (C0)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOG Vetland Hydr Primary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Surface So Inundatior Water-Sta Field Observa Surface Water Water Table P Saturation Pre includes capil	rology Indicators: tors (minimum of or vater (A1) or Table (A2) or (A3) rks (B1) (Nonriverial Deposits (B2) (Nonriverial Oracks (B6) or Visible on Aerial In tined Leaves (B9) ations: Present? resent? ye sent? ye lary fringe)	ne required; ne) nriverine) ine) nagery (B7) es No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex Depth (ir	it (B11) st (B12) avertebrates (B13 Sulfide Odor (Critical Reduced Iron on Reduction in Tax Surface (C7) plain in Remarks aches): 12 aches): 12 aches): 12	ng Living Roo (C4) illed Soils (C0)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOG Vetland Hydr Primary Indicat Surface W High Water Saturation Water Man Sediment Drift Depo Surface So Inundation Water-Sta Sield Observa Surface Water Vater Table P Saturation Pre Includes capill Describe Reco	rology Indicators: tors (minimum of or vater (A1) or Table (A2) or (A3) rks (B1) (Nonriverial Deposits (B2) (Nonriverial Oracks (B6) or Visible on Aerial In tined Leaves (B9) ations: Present? resent? ye sent? ye lary fringe)	ne required; ne) nriverine) ine) nagery (B7) es No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex Depth (ir	it (B11) st (B12) avertebrates (B13 Sulfide Odor (Critical Reduced Iron on Reduction in Tax Surface (C7) plain in Remarks aches): 12 aches): 12 aches): 12	ng Living Roo (C4) illed Soils (C0)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOG Vetland Hydr Primary Indicat Surface W High Water Saturation Water Man Sediment Drift Depo Surface So Inundation Water-Sta Sield Observa Surface Water Vater Table P Saturation Pre Includes capill Describe Reco	rology Indicators: tors (minimum of or vater (A1) or Table (A2) or (A3) rks (B1) (Nonriverial Deposits (B2) (Nonriverial Oracks (B6) or Visible on Aerial In tined Leaves (B9) ations: Present? resent? ye sent? ye lary fringe)	ne required; ne) nriverine) ine) nagery (B7) es No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex Depth (ir	it (B11) st (B12) avertebrates (B13 Sulfide Odor (Critical Reduced Iron on Reduction in Tax Surface (C7) plain in Remarks aches): 12 aches): 12 aches): 12	ng Living Roo (C4) illed Soils (C0)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vertland Hydrorimary Indicatorimary	rology Indicators: tors (minimum of or vater (A1) or Table (A2) or (A3) rks (B1) (Nonriverial Deposits (B2) (Nonriverial Oracks (B6) or Visible on Aerial In tined Leaves (B9) ations: Present? resent? ye sent? ye lary fringe)	ne required; ne) nriverine) ine) nagery (B7) es No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex Depth (ir	it (B11) st (B12) avertebrates (B13 Sulfide Odor (Critical Reduced Iron on Reduction in Tax Surface (C7) plain in Remarks aches): 12 aches): 12 aches): 12	ng Living Roo (C4) illed Soils (C0)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vertland Hydrorimary Indicatorimary	rology Indicators: tors (minimum of or vater (A1) or Table (A2) or (A3) rks (B1) (Nonriverial Deposits (B2) (Nonriverial Oracks (B6) or Visible on Aerial In tined Leaves (B9) ations: Present? resent? ye sent? ye lary fringe)	ne required; ne) nriverine) ine) nagery (B7) es No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex Depth (ir	it (B11) st (B12) avertebrates (B13 Sulfide Odor (Critical Reduced Iron on Reduction in Tax Surface (C7) plain in Remarks aches): 12 aches): 12 aches): 12	ng Living Roo (C4) illed Soils (C0)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Avila Ranch	City/C	county: Saar	(U.S. 06:500 Sampling Date: 17-15-15
Applicant/Owner: Bleve Peck			State: CA Sampling Point: 13
Investigator(s): 30Tillighteit & So Pohlmon			
Landform (hillslope, terrace, etc.): Unfifscial bowl			
Subregion (LRR): LRRC Lat: 3			
Soil Map Unit Name: Salinas Silty Clay (our			
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation, Soil, or Hydrology significantly	y disturi	bed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	roblema	atic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sam	pling point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	_	Is the Sampled	Arna
Hydric Soil Present? Yes No	-	within a Wetlar	. / / .
Wetland Hydrology Present? Yes No	-		
Remarks: Prought year, scrape along, Vegetation closs took dis	rocu ;fur	din pl	owed field-notplowed,
VEGETATION – Use scientific names of plants.			
Absolute	e Don	ninant Indicator	Dominance Test worksheet:
		cies? Status	Number of Dominant Species
1. nore			That Are OBL, FACW, or FAC:(A)
2	-		Total Number of Dominant
3			Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 3)	_ = To	tal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. none			Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x1 = 0
4			FACW species x 2 =
5			FAC species <u>45</u> x3 = <u>115</u> FACU species <u>10</u> x4 = <u>40</u>
Herb Stratum (Plot size: 3 ···)	_ = To	tal Cover	UPL species x5 =
Herb Stratum (Plot size: 3m) 1. Plantago lanceolata 5		FAC	Column Totals: 17 (A) 65 (B)
2. Foerecolon Volgare 10	<u>}</u>	FACU	
3. Hirschfeldia incara		U UPL	Prevalence Index = B/A = 3,82
4. Avera tatva		N UPL	Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6			Prevalence Index is ≤3.0¹
7			Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8		tal Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 3m)	_= 10	tal Cover	
1. none			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	= To	tal Cover	Hydrophytic
% Bare Ground in Herb Stratum % Cover of Biotics			Vegetation Present? Yes No
Remarks:			
Remarts of Phalar's agoation Lupinus microcarpus, Festura m	Coc,	Centron	nadic_condonii, Avenafatva,
Lupinus microcarpus, Festuca m	1.00	stachys	- .

$\overline{}$	^	•	

Sampling Point: ___/___

Profile Desc	ription: (Describe t	o the dep	th needed to docume	ent the	indicator	or confirm	the absence of in	dicators.)
Depth	Matrix (maint)			Feature		Loc ²	Touturo	Domorko
(inches) (0 - 4	Color (moist)		Color (moist)	<u> </u>		LOC	Texture	Remarks
	104RZ/2				<u>e</u>	PL		0
4-12+	104R2/2	45	FO 7,54R4/6		. —	102	<u>Sic</u>	
			7.54R518	_3_		PL		
					,			
	-							
•								
17			-Dadward Matrix CC-	-0			- 21 continu	u. DI -Dara Lining M-Matrix
			Reduced Matrix, CS=			u Sanu Gi	Indicators for P	Problematic Hydric Soils ³ :
Histosol		ibio to un	Sandy Redox		July			(A9) (LRR C)
	oipedon (A2)		Stripped Mate					(A10) (LRR B)
Black Hi			Loamy Muck		al (F1)		Reduced Ve	
	n Sulfide (A4)		Loamy Gleye					Material (TF2)
	l Layers (A5) (LRR C)	Depleted Mai		,			ain in Remarks)
	ck (A9) (LRR D)		+ Redox Dark	Surface	(F6)			
Depleted	l Below Dark Surface	(A11)	Depleted Dar	k Surfa	ce (F7)			
_	ark Surface (A12)		Redox Depre		(F8)		•	drophytic vegetation and
	lucky Mineral (S1)		Vernal Pools	(F9)			-	ology must be present,
	Bleyed Matrix (S4)						unless disturb	ped or problematic.
	_ayer (if present):							
	none							,/
Depth (in	ches): <u> </u>	nche	5				Hydric Soil Pres	sent? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	ators (minimum of or	<u>ne required</u>	d; check all that apply))			Secondary	Indicators (2 or more required)
Surface	Water (A1)		Salt Crust (I	311)			Water	Marks (B1) (Riverine)
High Wa	iter Table (A2)		Biotic Crust				Sedim	ent Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Inve	ertebrate	es (B13)		Drift D	eposits (B3) (Riverine)
Water M	arks (B1) (Nonriveri	ne)	Hydrogen S	ulfide O	dor (C1)		Draina	ige Patterns (B10)
Sedimer	nt Deposits (B2) (No n	riverine)	Oxidized Rh	nizosphe	eres along	Living Roo	ts (C3) Dry-Se	eason Water Table (C2)
Drift De	osits (B3) (Nonriver	ine)	Presence of	f Reduc	ed Iron (C	4)	Crayfis	sh Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron	Reduct	ion in Tille	d Soils (C6	i) <u></u> Satura	tion Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial Ir	nagery (B	7) Thin Muck §	Surface	(C7)		Shallo	w Aquitard (D3)
Water-S	tained Leaves (B9)			ain in Re	emarks)		FAC-N	leutral Test (D5)
Field Obser					- · ·			
Surface Wat	er Present? Ye	es	No <u>v</u> Depth (incl	nes): 👱	12"			
Water Table	Present? Ye	es	No Depth (incl	nes):	<u>>12"</u>	_		
Saturation P	resent? Ye	es	No <u>/</u> Depth (incl	nes):	>12"	Wetla	and Hydrology Pre	esent? Yes 📈 No
(includes cap	oillary fringe)		onitoring well, aerial pl					
pesoine Ke	orded Data (Stiediii	gauy e , III(mornig wen, denai pi	ioioa, p	i GVIOUS II IS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	n avanabic,	
Remarks:								
la la	terpools	in	this low	145	ng a	rea	· Woold	contain moff
Acces	170000	es a	A Promlan	d	Som	inhit.	101 - Ma	contain moff Kes hydrology
(1000		~ <i>U</i>	- Turrellar	1.		g	yeu, " "	The good of the
and	c vegetati	onk	roblemar	tico				

Althouse and Meade, Inc. – 838.02

Exhibit C – Cross-Sections and Photopoint Locations

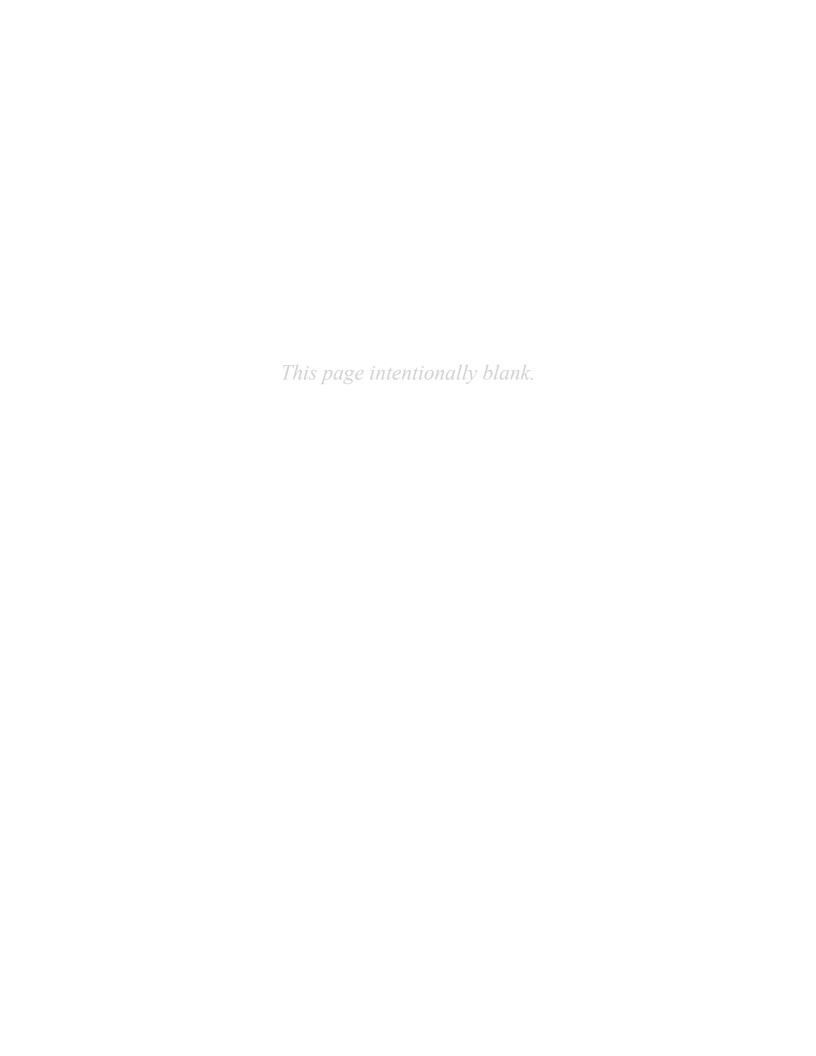
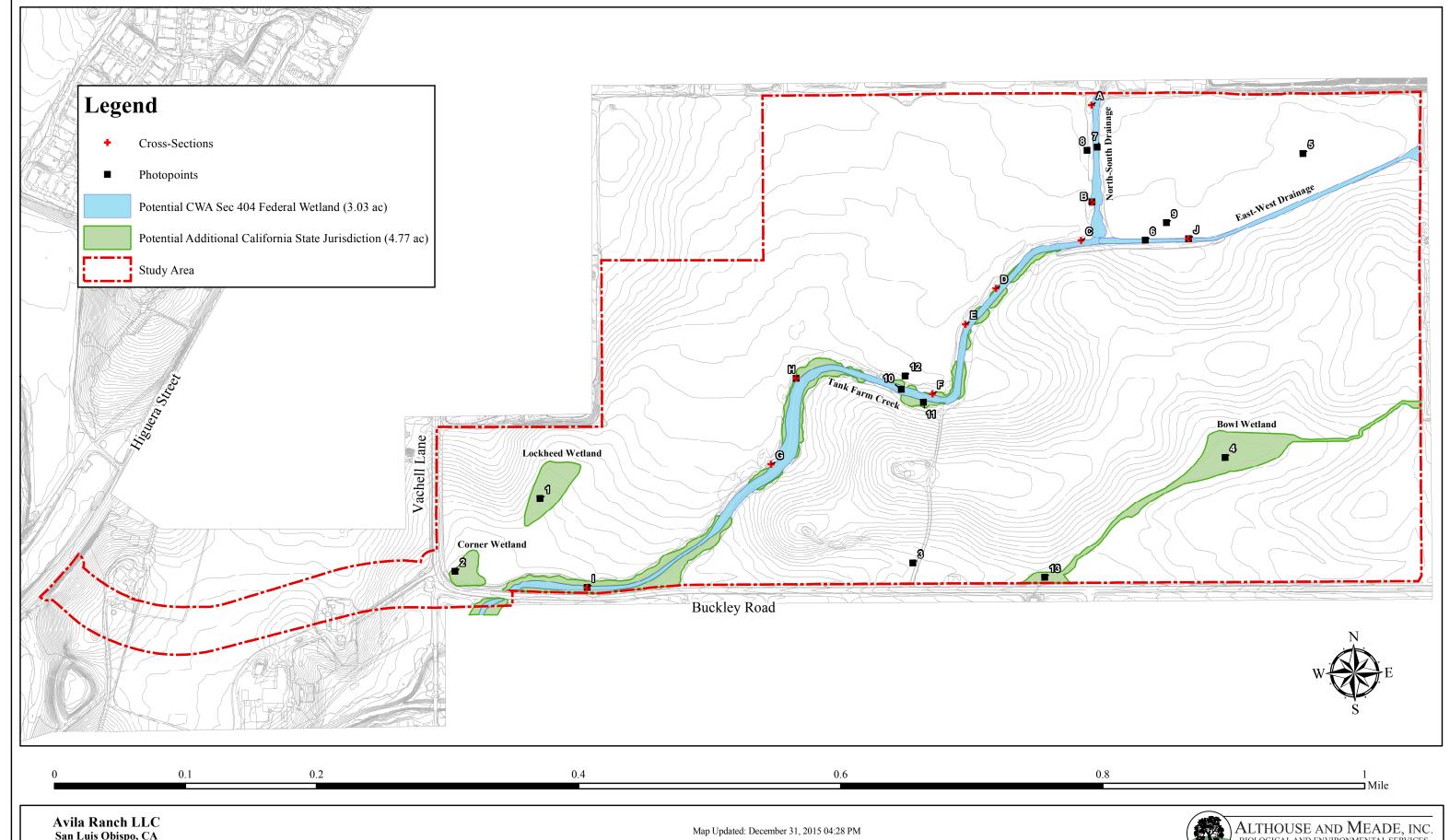
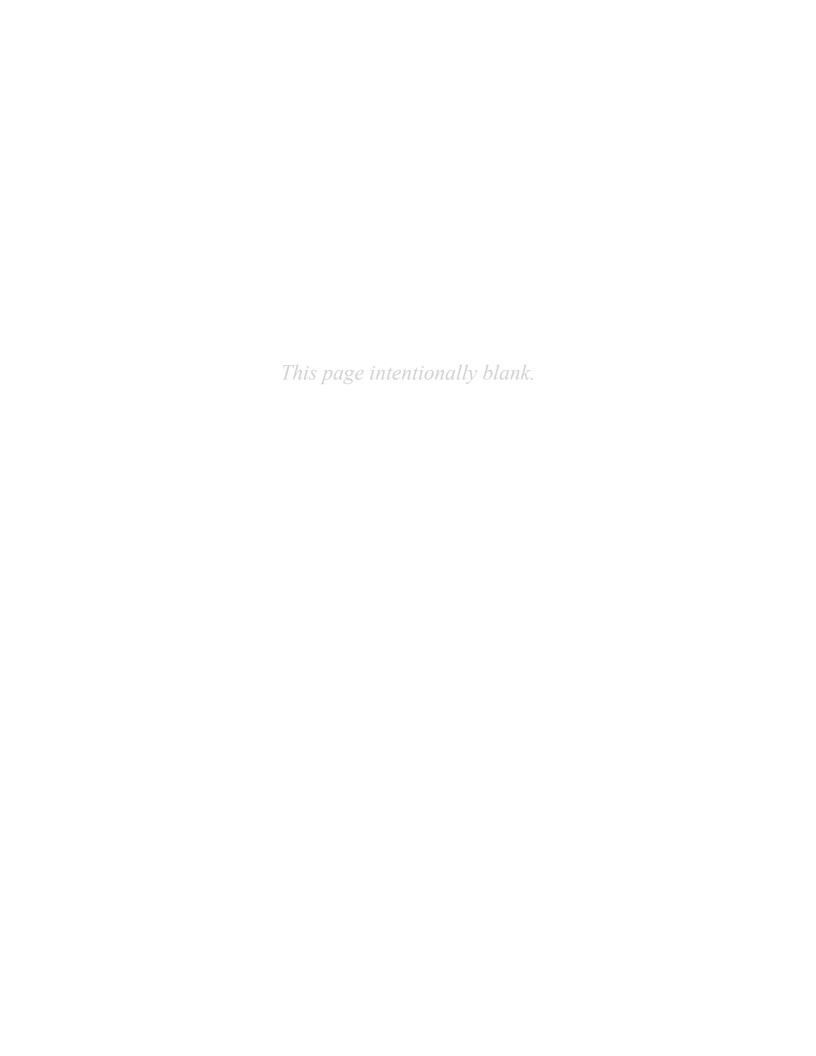


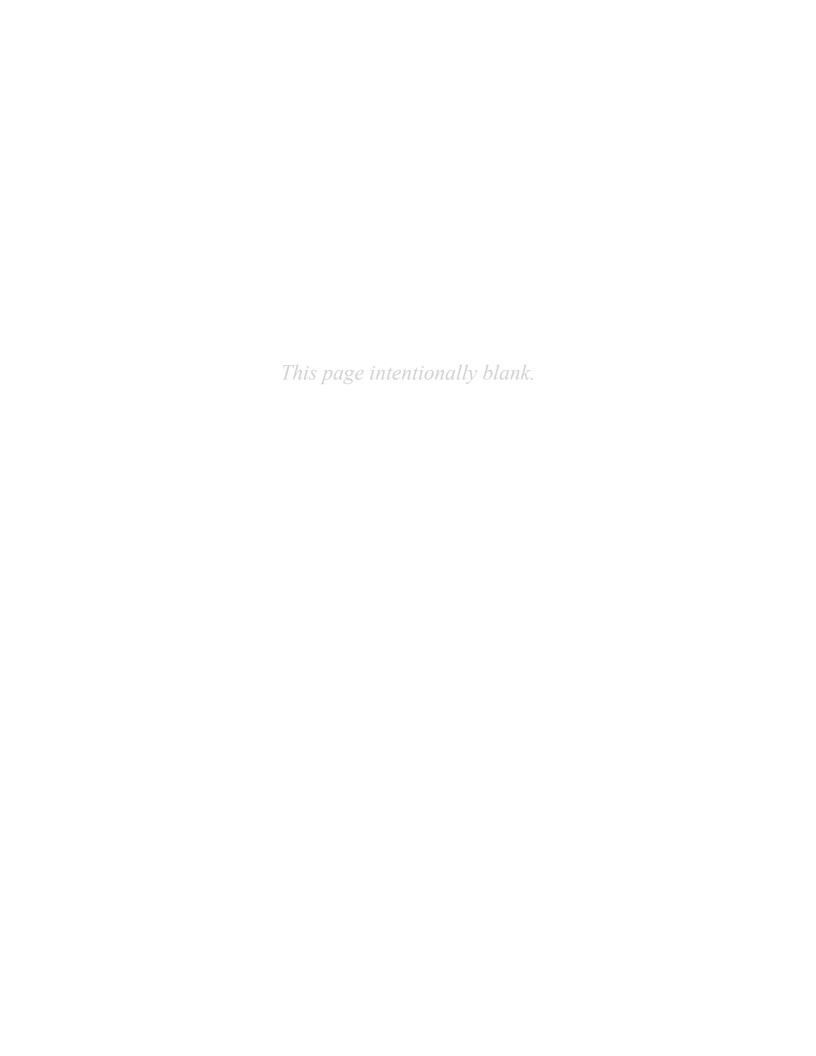
Exhibit C. Cross-Sections and Photopoint Locations



ALTHOUSE AND MEADE, INC. BIOLOGICAL AND ENVIRONMENTAL SERVICES



	Althouse and Meade, Inc. – 838.02
Exhibit D – Ephemeral and Intermittent Stream	ns OHWM Datasheets
1	



Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: Avila Ranch	Date: 12/15/15 Time: 0900 1100			
Project Number:	Town: San Luis Obispo State: CA			
Stream: Tank Farm	Photo begin file#: μ_{-1} Photo end file#: μ_{-3}			
Investigator(s): JaTillighest to JaPohlman	Ĭ-3 I-3			
Y / N Do normal circumstances exist on the site?	Location Details: Sife at corner of Buckley Robo Vachell La Projection: None Datum: WGS87			
Y [/ N [] Is the site significantly disturbed?	Projection: None Datum: ω(589) Coordinates: 35,23796, -120,66902 (5.4e)			
Potential anthropogenic influences on the channel sys	tom.			
The Study Area has been historically fa Furn Creek flows through the middle draining hasn't been disturbed farm Brief site description: drainage from both	med for close to a century, Tank			
Form Creek flows through the middle	and although the vegin most of the			
drainerge hasn't been disturbed farm	ing practices are encrouching on the			
Brief site description: drainage from both	Sides. Portions have also been			
A willow and cottonwood lined drained grained of the Study Aran to the south	rage flowing from the northeast			
edge of the Study Area to the south	west			
Checklist of resources (if available):				
Aerial photography	ge data			
Dates: 1939, 59, 64, 72, 94; Gage num	=			
Topographic maps 2002-07,09-13 Period of	record:			
Geologic maps Histor	ry of recent effective discharges			
	ts of flood frequency analysis			
	recent shift-adjusted rating			
Rainfall/precipitation maps Gage	heights for 2-, 5-, 10-, and 25-year events and the			
Existing delineation(s) for site most	recent event exceeding a 5-year event			
Global positioning system (GPS)				
Other studies				
Hydrogeomorphic	Floodplain Units			
Active Floodplain	Low Terrace			
	4			
	/ / OHWM Paleo Channel			
Low-Flow Channels				
Procedure for identifying and characterizing the floo				
1. Walk the channel and floodplain within the study area	to get an impression of the geomorphology and			
vegetation present at the site.				
2. Select a representative cross section across the channel	Draw the cross section and label the floodplain units.			
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.				
a) Record the floodplain unit and GPS position.				
b) Describe the sediment texture (using the Wentworth	n class size) and the vegetation characteristics of the			
floodplain unit.				
c) Identify any indicators present at the location.				
4. Repeat for other points in different hydrogeomorphic	floodplain units across the cross section.			
5. Identify the OHWM and record the indicators. Record				
Mapping on aerial photograph	GPS			
Digitized on computer	Other:			

Project ID:	Cross section ID: \mathcal{H}	Date: 12/15/15	Time: 1100
Cross section drawing	ng:		
OHWM			
OHWM GPS point: drainage	toonarrow for GPS	markers	·
Indicators: Change in ave. Change in veg Change in veg	rage sediment texture etation species etation cover	☐ Break in bank slope ☐ Other: ☐ Other:	
Comments: Hasn't flowed High amount	inawhile no drift of leaf litter. Off	t or gedsment deposits	on Dampsoilo O-ffwicles
Floodplain unit:	X Low-Flow Channel	Active Floodplain	Low Terrace
GPS point: 35.23	8035 _, -120,6 1 083	6	
Community succession NA	ıre: <u> </u>	b: 30% Herb: 60% Mid (herbaceous, shrubs, sap Late (herbaceous, shrubs, ma	= -
Indicators: Mudcracks Ripples Drift and/or de Presence of be Benches		Soil development Surface relief Other: Other: Other:	
Comments: Water-Stuline	ed leuves . Schoen	ople dus & Typha prese	

Project ID:	Cross section ID: H	Date: 12/15/	15 Time: 1100
Floodplain unit:	Low-Flow Channel	Active Floodplain	☐ Low Terrace
GPS point:			
Community succession NA	xture: <u> </u>	ub: <u>40</u> % Herb: <u>Zo</u> % Mid (herbaceous, shrub Late (herbaceous, shrub	os, saplings)
Indicators: Mudcracks Ripples Drift and/or Presence of Benches	debris bed and bank	Soil development Surface relief Other: Other: Other:	
Comments:			
	entoless herb cove,	Active Floodplain	
GPS point:			Elow Tellace
Community successio	ture: <u>Clay</u> O% Tree: <u>90</u> % Shru	b: _/ 0 % Herb: % Mid (herbaceous, shrub Late (herbaceous, shrub	
Indicators: Mudcracks Ripples Drift and/or of Presence of the Benches Comments: Top of bank		Soil development Surface relief Other: Other: Other:	

Project ID:	Cross section ID:	- Date: 12/15/15 Time: 1200
Cross section drawi	ing:	
	(/	
<u>OHWM</u>		·
GPS point: draining	e toonarrow for GR	5 pts asmeasurements
Indicators:		
	erage sediment texture	Break in bank slope
	getation species getation cover	☐ Other: Other:
Change in ve		
Comments:		
Coastratia	catifical as	
CONSTITUTE C	getation type and	
,		
Tile administration		Action Plandalia II and Toward
Floodplain unit:	Low-Flow Channel	☐ Active Floodplain ☐ Low Terrace
GPS point: 35.23	5786-120,673685	
	•	
Characteristics of the	tloodplain unit:	
Total veg cover: 70	% Tree: <u>70</u> % Shru	ıb: <u> </u>
Community succession		
│ │ │ │ NA │ │ Farly (herbac	eous & seedlings)	☐ Mid (herbaceous, shrubs, saplings) ☐ Late (herbaceous, shrubs, mature trees)
	oous to sooumigs)	<u> </u>
Indicators:		M C-11 development
☐ Mudcracks☐ Ripples		✓ Soil development✓ Surface relief
Drift and/or d		Other:
Presence of b	ed and bank	Other:
Benches		Other:
Comments:		
Hydric soil pri	esent Channel has	it Plowed in awhile
'		<u> </u>
	•	

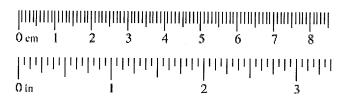
Project ID:	Cross section ID:	I Date: 12/	15/15 Time: 1700
Floodplain unit:	Low-Flow Channel	☐ Active Floodplain	
GPS point:			
Total veg cover:	ture: <u>mediumsilt</u> 2 % Tree: <u>40 %</u> Sh	rub:% Herb: _<	rubs, saplings)
Indicators: Mudcracks Ripples Drift and/or of Presence of to Benches Comments:		Soil development Surface relief Other: Other: Other:	
Floodplain unit:	☐ Low-Flow Channel	☐ Active Floodplain	☑ Low Terrace
GPS point:	1.1		
Community succession NA	ture: <u>Clay</u> _ % Tree: <u>65</u> % Shi	rub:% Herb: <u>&</u> Mid (herbaceous, sh Late (herbaceous, sh	rubs, saplings)
Indicators: Mudcracks Ripples Drift and/or d Presence of b Benches Comments:		Soil development Surface relief Other: Other: Other:	

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Desirate 1 4 9 cl	Data to local Times (10.0)
Project: Avila Ranch	Date: 12/15/15 Time: 900
Project Number:	Town: San Lois Obispo State: CA
Stream: North South Draininge	Photo begin file#: Photo end file#:
Investigator(s): JoTillightito JoPohlman	3-1 8-3
Y \(\sum / \ N \(\subseteq \) Do normal circumstances exist on the site?	Location Details: Sife at corner of Buckley Rol & Vachella Projection: None Datum: WG587
Y ⋈ / N ☐ Is the site significantly disturbed?	Projection: None Datum: WG584 Coordinates: 35.23746, -120,66902(s.4e)
Potential anthropogenic influences on the channel sys	4
This portion of the main draining ensity ist installation of the Tank Farm north drainage with hydrophytic Vegetation. Brief site description: stales (last/west) of the	te was likely rerouted during the a of the study trea. It is a name anade
Duisf site descriptions of less to the the standard	o la del
Brief site description: States (last/west) of the	l dramage.
The Study Fren has been historically irrigated crop fields and form rouds	turned and contains many actively
The desired of the desired association (18 days)	
Checklist of resources (if available):	
Aerial photography Stream gag	ge data
	ber:
Dates: 1939 5965 72 94 7 2002-07 Gage num Topographic maps 09-13 Period of 1	
Geologic maps Histor	y of recent effective discharges
	s of flood frequency analysis
1 = / 0 = 1	recent shift-adjusted rating
1	heights for 2-, 5-, 10-, and 25-year events and the
<u> </u>	
\ /	recent event exceeding a 5-year event
Global positioning system (GPS)	
Other studies	
Hydrogeomorphic I	Floodplain Units
, - ·	
Active Floodplain_	Low Terrace
	٠
	OLUMA Balas Obanual
Low-Flow Channels	OHWM Paleo Channel
Procedure for identifying and characterizing the flood	Iplain units to assist in identifying the OHWM:
1. Walk the channel and floodplain within the study area	to get an impression of the geomorphology and
vegetation present at the site.	to get an impression of the geomorphology and
	Draw the group coation and label the floodulain units
2. Select a representative cross section across the channel.	
3. Determine a point on the cross section that is character	risuc of one of the hydrogeomorphic floodplain units.
a) Record the floodplain unit and GPS position.	
b) Describe the sediment texture (using the Wentworth	class size) and the vegetation characteristics of the
floodplain unit.	
c) Identify any indicators present at the location.	
4. Repeat for other points in different hydrogeomorphic f	floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record	
Mapping on aerial photograph	GPS
My rimbbing on agricu hirosopiahii —	Other:

Wentworth Size Classes

Wentworth Size Classes					
Inch	es (in)	Mi	limeters (mi	m)	Wentworth size class
	10.08		256		Boulder
	2.56 —		64		Copple
	0.157		4 .		
	0.079		2.00 -		Granule
	0.039		1.00		Very coarse sand
	0.020 —		0.50		Coarse sand - — — — - 모
1/2	0.0098 —		0.25		Medium sand
1/4	0.005 —		0.125 -		Fine sand
1/8 —	0.0025		0.0625-		Very fine sand
1/16	0.0012 —		0.031 -	_ 4	Coarse silt
1/32	0.00061		0.0156 -		Medium silt
1/64	0.00031		0.0078 -	_	Fine sift
1/128 —	0.00015		0.0039-		Very fine silt
					Clay PnW



Project ID:	Cross section ID: 3	Date: 12/15/15 Time: 900
Cross section drawin	g :	
<u>OHWM</u>		
GPS point: drainage - Indicators: Change in aver Change in vege Change in vege	-	Break in bank slope Other: Other:
Comments:		
Floodplain unit:	Low-Flow Channel	☐ Active Floodplain ☐ Low Terrace
GPS point: 35,248	048,-no,66676	, ,
Characteristics of the flee Average sediment texture Total veg cover: 80 Community successions	re: <u>Clay</u> % Tree: <u>60</u> % Shrul	
☐ NA ☐ Early (herbaced	ous & seedlings)	☐ Mid (herbaceous, shrubs, saplings) ☐ Late (herbaceous, shrubs, mature trees)
Indicators: Mudcracks Ripples Drift and/or de Presence of bed Benches		☐ Soil development ☐ Surface relief ☐ Other: ☐ Other: ☐ Other:
Comments:		
	•	

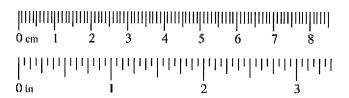
Project ID:	Cross section ID	: B	Date: 12/13	5/15	Time: 900
Floodplain unit:	Low-Flow Channel	X	Date: 17/13 Active Floodplain		Low Terrace
GPS point:					
Community successi	xture: <u>clay</u> 20 % Tree: 50 %		Mid (herbaceous, shru Late (herbaceous, shru	bs, sapl	
Indicators: Mudcracks Ripples Drift and/or Presence of Benches Comments:	debris bed and bank		Soil development Surface relief Other: Other: Other:		
Floodplain unit	Low-Flow Channel	<u> </u>	A -4: T1 11	[\forall]	T. T.
1 tooupium umt.	Low-Flow Channel		Active Floodplain	į Z	Low Terrace
GPS point:					
Characteristics of the Average sediment tex Total veg cover:	efloodplain unit: eture:	 Shrub:	≪% Herh: 50 %	,	
Community succession	onal stage:		<u> </u>		
	ceous & seedlings)		Mid (herbaceous, shrul Late (herbaceous, shrul	os, sapn	ngs)
Indicators:	<i>3</i>		(,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Muderacks Muderacks Ripples Drift and/or of the Benches			Soil development Surface relief Other: Other: Other:		
Comments:				-	

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Aria west Ephemeral and Internit				
Project: Avila Ranch	Date: 12/15/15 Time: 930			
Project Number:	Town: San Lussobispo State: Cx			
Stream: Fast-West	Photo begin file#: Photo end file#:			
Investigator(s): JoTilligkeit oforollman	g-1 J-3			
investigator(s). Jarring to a root	Location Details:			
Y / N Do normal circumstances exist on the site?	Projection: None Datum: WGS89			
Y 🔀 / N 🗌 Is the site significantly disturbed?	Projection: None Datum: WC389 Coordinates: 35, 23796, -120, 66902(5:4e)			
Potential anthropogenic influences on the channel syst	tem:			
This drainage is essentially a form of Water originates from east of the Study	of the separating to two crapticles. If Area			
Brief site description:				
Brief site description: The Study frem has been his torically irrigated crop fields to farm fields	fumed o contains actively			
irrigated cropfields bfarmfields				
Checklist of resources (if available):				
Aerial photography	ge data			
Dates: 1939, 59, 65, 72, 94, 2002-07, Gage num	ber:			
Topographic maps $09-13$ Period of r	ecord:			
	y of recent effective discharges			
	,			
	s of flood frequency analysis			
	ecent shift-adjusted rating			
	neights for 2-, 5-, 10-, and 25-year events and the			
Existing delineation(s) for site most r	ecent event exceeding a 5-year event			
Global positioning system (GPS)				
Other studies				
	The delain I hite			
Hydrogeomorphic F	-ioodpiain Onits			
Active Floodplain	Low Terrace			
	l de			
	and the same of th			
Low-Flow Channels	OHWM Paleo Channel			
Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:				
1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and				
vegetation present at the site.				
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.				
3. Determine a point on the cross section that is character	istic of one of the hydrogeomorphic floodplain units.			
a) Record the floodplain unit and GPS position.				
b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the				
floodplain unit.				
c) Identify any indicators present at the location.				
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.				
5. Identify the OHWM and record the indicators. Record the OHWM position via:				
<u> </u>	·			
Mapping on aerial photograph	GPS			
Digitized on computer	Other:			

Wentworth Size Classes

wentworth Size Classes							
Inches (in)		Millimeters (mm)		Wentworth size class			
	10.08 —		- 2	56		Boulder	
	2.56 —		- 1	64		Cobble	Grave
	0.157			4		Pebble	O
	0.079 —			2.00		Granule	
	0.039 —	_	_	1.00		Very coarse sand	
	0.020 —	-	_	0.50	-	Coarse sand	펃
1/2	0.0098 —	_	-	0.25		Medium sand	Sand
1/4	0.005 —	_	-	0.125		Fine sand	
1/8	0.0025		_	0.0625		Very fine sand	
1/16	0.0012 —	_	_	0.031		Coarse silt	
1/32	0.00061 —	******	-	0.0156		Medium silt	Silt
1/64	0.00031 —		-	0.0078		Fine silt	
1/128 —	0.00015		_	0.0039		Very fine silt	
						Clay	Mud



Project ID: Cross section ID:	Date: 12/15/15 Time: 0930
Cross section drawing:	
south	rorth
OTIWA	
<u>OHWM</u>	
GPS point: dranage too small for acc	vrate
Indicators:	
Change in average sediment texture	Break in bank slope
Change in vegetation species Change in vegetation cover	Other:
Change in vegetation cover	Other:
Comments:	
Drainage at tificially manipulated	l by Durning practices. Burely a
draininge-mostly a strip of less	st disturbed vego Hydry seiled
into farm field to the north of	l by farming practices. Barely a st disturbed vego Hydrics o'llextends of WM width approximately 3-ft.
	/ / / / / / / / / / / / / / / / / / / /
Floodplain unit:	Active Floodplain
GPS point: 35,239651,-120,665570	
Characteristics of the floodplain unit:	
Average sediment texture: c/q /	
Total veg cover: <u>56</u> % Tree: <u>0</u> % Shr Community successional stage:	ub: <u>0</u> % Herb: <u>50</u> %
□ NA	Mid (herbaceous, shrubs, saplings)
☐ Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)
Indicators:	
Mudcracks	Soil development
☐ Ripples ☐ Drift and/or debris	Surface relief Other:
Presence of bed and bank	Other:
Benches	Other:
Comments:	
Hydric Soil	
,	

Project ID: Cross section II	Date: 12/15/15 Time: 0930
Floodplain unit:	Active Floodplain
GPS point:	
Characteristics of the floodplain unit: Average sediment texture:	Shrub:
Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Soil development Surface relief Other: Other: Other:
Comments:	
Floodplain unit:	☐ Active Floodplain ☐ Low Terrace
GPS point:	
Characteristics of the floodplain unit: Average sediment texture:	Shrub:% Herb:
Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Soil development Surface relief Other: Other: Other:
Comments:	

Appendix A - PJD Summary Sheet

Report Completion Date for PJD:	December 2015			
Name and Address of Person Requesting PJD:	LynneDee Althouse, M.S. c/o Jacqueline Tilligkeit, M.S. Althouse and Meade, Inc. 1602 Spring Street Paso Robles, CA 93446 On behalf of: Avila Ranch, LLC c/o Stephen Peck 735 Tank Farm Road, Ste 2 San Luis Obispo, CA 93401			
Project Location (s) and Background Information:	Intersection of Vachell Lane and Buckley Road San Luis Obispo, San Luis Obispo County, California Portion of USGS Hydrologic Unit 180600060705.			
Center Coordinates of Site:	Lat. 35.2386° N, Long120.6687° W (WGS84 datum) Northing: 3901994.35, Easting: 712135.34, Zone: 10S			
Name of Nearest Water Body:	Tank Farm Creek, tributary to East Fork of San Luis Obispo Creek			
Estimate of Waters in the Review Area:	Federal Non-wetland waters: 0 ft; Federal Wetlands: 3.03 acres Stream Flow: ephemeral stream Cowardin Class: Palustrine, emergent; [some are farmed]			
Section 10 Waters:	Tidal: 0, Non-Tidal: 0			

Supporting Data - Data Reviewed for PJD

Maps, plans, or plots submitted by or on behalf of the applicant/consultant:

- Exhibit A. Delineation of Potentially Jurisdictional Wetlands and Waters
- Figure 1. National Hydrography Dataset
- Figure 2. 8-digit Hydrologic Unit Code
- Figure 3. 12-digit Hydrologic Unit Code
- Figure 4. USGS Topographic Map
- Figure 5. USDA Soil Map Units over 2012 Aerial Photo
- Figure 6. National Wetlands Inventory
- Figure 7. FEMA-FIRM Data
- Figure 8. Aerial Imagery History
- Figure 9. Previous Delineation
- 2. Data sheets prepared/submitted by consultant
- 3. U.S. Geological Survey maps
 - Topography map: Pismo Beach 7.5' Quadrangle
 - U.S. Geological Survey NHD data (Figure 1)
 - U.S. Geological Survey 8 and 12 digit HUC maps (Figures 2 and 3)
- 4. USDA Natural Resources Conservation Service Soil Survey (Figure 5)
- 5. National Wetlands Inventory map (Figure 8)
- 6. FEMA/FIRM map (Figure 7)
- 7. USDA 2012 National Aerial Imagery Photography and Google Earth historic aerials (Figure 8)